

Geneviève, une relamicola de + 36 ans l'année *mousseline*

Année mousseline

La mousseline est un tissu très fin et léger :
symboliquement, cela évoque

- une relation solide mais délicate,
- faite de douceur, de souplesse et d'attention,
- qui tient dans la durée sans rigidité.



Fawzi BOUDJEMA

boudjema@lapth.cnrs.fr



Disclaimer

So I need to return briefly to a few incidents that have grown into anecdotes, to some approximate memories which time has deformed into certainty. If I can't be sure of the actual events any more, I can at least be true to the impressions those facts left. That's the best I can manage.

Julian Barnes, *The sense of an ending*, 2011.

Il me faut donc revenir brièvement sur quelques incidents devenus des anecdotes, sur des souvenirs approximatifs que le temps a déformés jusqu'à les transformer en certitudes. Si je ne peux plus être sûr des événements tels qu'ils se sont réellement produits, je peux au moins rester fidèle aux impressions que ces faits ont laissées. C'est le mieux que je puisse faire. »

Julian Barnes, *Le Sens d'une fin*, 2011.

the proposal

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INSTITUTE/COMPANY UNIVERSITY: Physics Dept. Sussex University

FAX NUMBER: 011-44-273-678097

FROM: Geneviève Bélanger

ACCT. TO BE CHARGED: 9047

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at TRIUMF.

In september, I will be in Montreal

phone: 514-343-6728

FAX 514-343-6015

1990

August 7, 1989

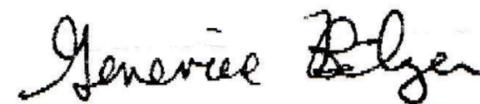
Dr. Fawzi Boudjema
Physics Department
School of MAPS
Sussex University
Falmer
BN1 9QH Brighton

Cher Dr. Boudjema

Il me fait plaisir de [REDACTED]
Physique Nucléaire de [REDACTED]
débutant à l'automne [REDACTED]
dant au prix d'un billet d'avion aller-simple Londres Montréal sont remboursables.

Le groupe de physique théorique comprend plusieurs spécialistes de la théorie des champs, Jean LeTourneux, Richard Mackenzie, Manu Paranjape et Luc Vinet, des physiciens nucléaires, Bernard Goulard et Mike Pearson, et des phénoménologues, David London et moi-même. L'année prochaine il y aura également deux chercheurs postdoctoraux, Karl Isler et Ralph Girard. Le groupe expérimental participe aux projets HELIOS et OPAL.

Nous serions très heureux si vous décidiez de vous joindre à nous.



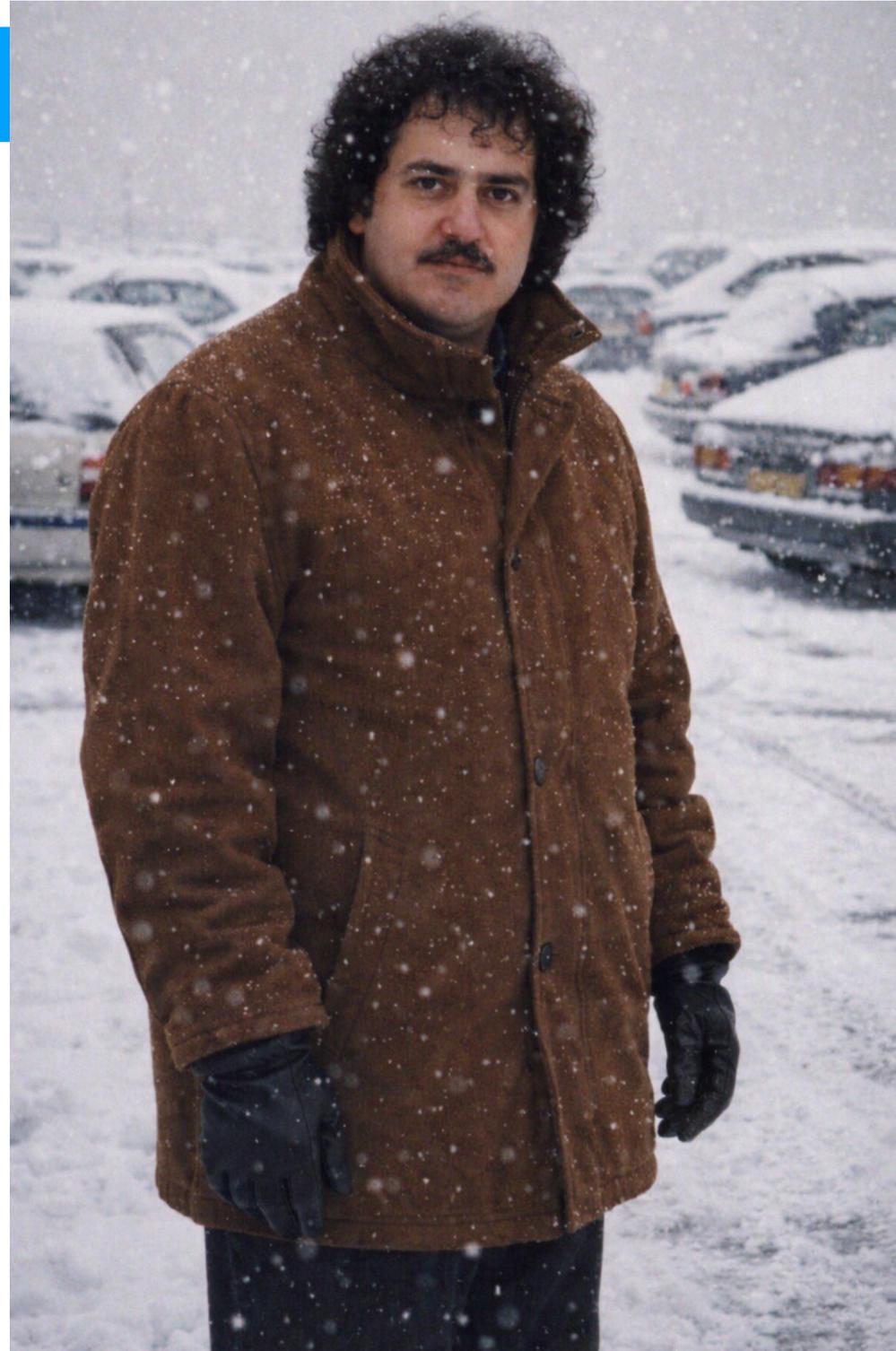
Geneviève Bélanger

I met Geneviève in person on 17 Oct 1989 at 15h37 à Mirabel

- **la veille on m avait dit qu'il faisait un temps magnifique.**
- **un t -shirt ou petite veste suffirait, ..**

Voici comment j'avais été accueilli
l'entremetteur CHERIF HAMZAOUI

- |



Voici comment j'avais été accueilli

|

- **+ Geneviève a très peu d'accent...on s'entend parfaitement**
- **- fuyant l'instabilité en Algérie, je découvre le débat sur l'identité du Québec, échec des accords du Lac Meech, commission B-C, le fromage d'Oka et les indiens..**

Vacuum polarization effects of new physics on electroweak processes

G. Altarelli, R. Barbieri ^{a b}

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[https://doi.org/10.1016/0370-2693\(91\)91378-9](https://doi.org/10.1016/0370-2693(91)91378-9)

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Abstract

The effects of new physics on vacuum polarization corrections to electroweak processes can in general be parametrized in terms of six real constants, in the limit of neglecting terms which vanish for $\Lambda \rightarrow \infty$, with Λ being the scale of new physics. Three of these parameters can be reabsorbed in the definitions of α , G_F and m_Z , while the remaining three are observables. On the basis of simple models, it is shown that all three can be important and should be kept in a model-independent analysis of the data. This is equivalent to treating Δr , ΔQ and s_w^2 (an effective $\sin^2\theta_w$ from on-shell Z couplings) as independent observables. By now available data allow a separate model-independent determination of these quantities. Implications for technicolour and supersymmetric models and anomalous γWW or ZWW couplings are discussed.

Effects of an Anomalous ZWW Vertex at {LEP}

#3

G. Belanger (Montreal U.), F. Boudjema (Montreal U.), David London (Montreal U.) (May, 1990)

Published in: *Phys.Rev.Lett.* 65 (1990) 2943-2946

 DOI  cite  claim

 reference search  23 citations

Probing the Z W W vertex at LEP-1

#4

G. Belanger (Montreal U.), F. Boudjema (Montreal U.), David London (Montreal U.) (1990)

Contribution to: [Lake Louise Winter Institute: The Standard Model and Beyond \(3 day School & 3 day Topical Workshop\)](#), 316-322

The Selfcouplings of vector bosons: Does LEP-1 obviate LEP-2?

#19

A. De Rujula (CERN), M.B. Gavela (CERN), P. Hernandez (CERN), E. Masso (CERN) (Oct, 1991)

Published in: *Nucl.Phys.B* 384 (1992) 3-58

 DOI  cite  claim

 reference search  372 citations

Effective Lagrangian description of precision measurements or how to parameterize ignorance

Martin B. Einhorn (Santa Barbara, KITP and Michigan U.), Jose Wudka (UC, Riverside) (Nov, 1991)

Contribution to: [International Workshop on Electroweak Symmetry Breaking](#), 189-207

1990, from MTL to BNL, Long Island through the Bronx



1990

(Bush père era, Bryan Mulroney in Canada)



1990 (Bush père era, Bryan Mulroney in Canada)

In 1990, the Premier (Prime Minister) of Quebec was Robert Bourassa.

He was in office from 1985 to 1994, so he was very much the central political figure in Quebec during that pivotal year (Meech Lake's failure, the Oka Crisis, and the Bélanger-Campeau Commission).



Probing quartic couplings of weak bosons through three vectors production at a 500-
GeV NLC

#17

G. Belanger (Montreal U.), F. Boudjema (Annecy, LAPP) (Jan, 1992)

Published in: *Phys.Lett.B* 288 (1992) 201-209

[DOI](#) [cite](#) [claim](#)

[reference search](#) [192 citations](#)

gamma gamma ----> W+ W- and gamma gamma ----> Z Z as tests of novel quartic
couplings

#18

G. Belanger (Montreal U.), F. Boudjema (Annecy, LAPP) (Jan, 1992)

Published in: *Phys.Lett.B* 288 (1992) 210-220

[DOI](#) [cite](#) [claim](#)

[reference search](#) [126 citations](#)

Quartic boson couplings in e+ e-

G. Belanger (Montreal U.), F. Boudjema (DESY and Annecy, LAPP and Lyon, Ecole Normale)

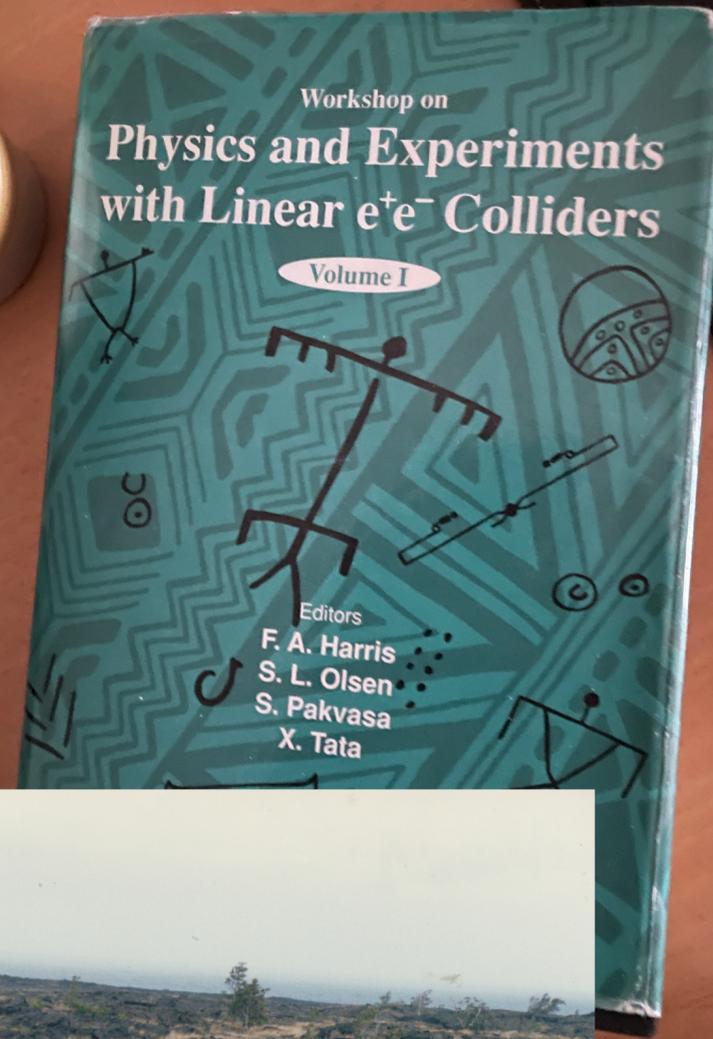
Germany DESY 1991

Très cher,
12 août 1991
Voici les souvenirs de tes dernières "vacances"
au Québec, dommage qu'elles ne soient pas toutes au Jorvis.
Tu avais de la misère, à très petit jeu général à

bien. Les Italiens sont vraiment beaux et ceux
qu'on rencontre en montagne sont aussi très sympathiques
(malheureusement il y a plus de Suisses/Autrichiens/Allemands
que d'Italiens). Mon vocabulaire italien s'est
grandement amélioré mais je n'en suis pas encore
aux phrases complètes.

excuse-moi, mais il n'y a pas toujours un téléphone
à portée de la main. Dis bonjour à Marc, Abdel et Gordon.
Travaille fort!!! Bisous.
Genevieve

Haw



Quartic boson couplings in e^+e^-

G. Belanger (Montreal U.), F. Boudjema (DESY and Annecy, LAPP and Lyon, Ecole Normale)

1993 gamma gamma era, sabbatical of Geneviève (on partage un bureau)

Extracting the intermediate mass Higgs resonance at photon-photon colliders #6

M. Baillargeon (Annecy, LAPP and Montreal U.), G. Belanger (Annecy, LAPP and Montreal U.), F. Boudjema (Annecy, LAPP) (Sep, 1994)

Published in: *Phys.Rev.D* 51 (1995) 4712-4730 • e-Print: [hep-ph/9409263](#) [hep-ph]



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DOI



cite



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reference search



37 citations

Electroweak physics issues at a high-energy photon collider #7

Marc Baillargeon (Annecy, LAPP), Genevieve Belanger (Annecy, LAPP), Fawzi Boudjema (Annecy, LAPP) (May, 1994)

Contribution to: *Two-Photon Physics from DAPHNE to LEP200 and Beyond*, 267-308 • e-Print: [hep-ph/9405359](#) [hep-ph]



pdf



cite



claim



reference search



32 citations

W and Z dynamics in e gamma and gamma gamma collisions: Standard processes and tests of quartic couplings #

G. Belanger (Montreal U.), F. Boudjema (DESY and Annecy, LAPP and Lyon, Ecole Normale Superieure) (1992)

(1993→) The Russian connection and the Japanese Connection
UdM→UdM-LAPTh(Sabbatique 1984)→LAPTh-CNRS

Extracting the intermediate mass Higgs resonance at photon-photon colliders #6

M. Baillargeon (Annecy, LAPP and Montreal U.), G. Belanger (Annecy, LAPP and Montreal U.), F. Boudjema (Annecy, LAPP) (Sep, 1994)

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Electroweak physics issues at a high-energy photon collider #7

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Contribution to: *Two-Photon Physics from DAPHNE to LEP200 and Beyond*, 267-308 • e-Print: [hep-ph/9405359](#) [hep-ph]

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W and Z dynamics in e gamma and gamma gamma collisions: Standard processes and tests of quartic couplings #

G. Belanger (Montreal U.), F. Boudjema (DESY and Annecy, LAPP and Lyon, Ecole Normale Superieure) (1992)

(1993—>) The Russian connection and the Japanese Connection



(1993—>) The Russian connection and the Japanese Connection





Fyodor Dostoyevsky's
Last Flat



1996-1999 morceaux choisis, non SUSY, non DM

Anomalous couplings and chiral Lagrangians: An Update

#16

M. Baillargeon (Lisbon, IST), U. Baur (SUNY, Buffalo), G. Belanger (Annecy, LAPP), F. Boudjema (Annecy, LAPP), G. Couture (Quebec U., Montreal) et al. (Feb, 1996)

Contribution to: [Physics with e+ e- Linear Colliders \(The European Working Groups 4 Feb - 1 Sep 1995: Session 3\)](#), 255-262, [Physics with e+ e- Linear Colliders \(The European Working Groups 4 Feb - 1 Sep 1995: Session 2\)](#), 255-262, [Physics with e+ e- Linear Colliders \(The European Working Groups 4 Feb - 1 Sep 1995: Session 1 \(Session 2: 2-3 Jun 1995 in Assergi, Italy: Session 3: 30 Aug - 1 Sep 1995 in Hamburg, Germany\)\)](#), 255-262 • e-Print: [hep-ph/9603220](#) [hep-ph]

Implementation of the nonlinear gauge into GRACE

#10

G. Belanger (Annecy, LAPP), F. Boudjema (Annecy, LAPP), J. Fujimoto (KEK, Tsukuba), T. Ishikawa (KEK, Tsukuba), T. Kaneko (Meiji Gakuin U.) et al. (Apr, 1999)

Contribution to: [AIHENP 99](#) • e-Print: [hep-ph/9907406](#) [hep-ph]

Bosonic quartic couplings at LEP-2

#7

G. Belanger (Annecy, LAPTH), F. Boudjema (Annecy, LAPTH), Y. Kurihara (KEK, Tsukuba), D. Perret-Gallix (Annecy, LAPTH), A. Semenov (Dubna, JINR) (Aug, 1999)

Published in: *Eur.Phys.J.C* 13 (2000) 283-293 • e-Print: [hep-ph/9908254](#) [hep-ph]

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 DOI

 cite

 claim

 reference search

 132 citations

- **First papers on SUSY /Japan Collaboration/Automation**

SUSY Higgs at the LHC: Large stop mixing effects and associated production

#9

G. Belanger (Annecy, LAPTH), F. Boudjema (Annecy, LAPTH), K. Sridhar (Tata Inst.) (Apr, 1999)

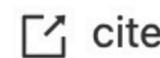
Published in: *Nucl.Phys.B* 568 (2000) 3-39, *Nucl.Phys.B* 576 (2000) 660-660 (erratum) • e-Print: [hep-ph/9904348](#) [hep-ph]



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46 citations

Implementation of the nonlinear gauge into GRACE

#10

G. Belanger (Annecy, LAPP), F. Boudjema (Annecy, LAPP), J. Fujimoto (KEK, Tsukuba), T. Ishikawa (KEK, Tsukuba), T. Kaneko (Meiji Gakuin U.) et al. (Apr, 1999)

Contribution to: [AIHENP 99](#) • e-Print: [hep-ph/9907406](#) [hep-ph]



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3 citations

Associated stop Higgs production at the linear collider and extraction of the stop parameters

#11

G. Belanger (Annecy, LAPTH), F. Boudjema (Annecy, LAPTH), T. Kon (Seikei U.), V. Lafage (KEK, Tsukuba) (Nov, 1998)

Published in: *Eur.Phys.J.C* 9 (1999) 511-520 • e-Print: [hep-ph/9811334](#) [hep-ph]

1997 —> India IndoFrench —> DM Prelude



SUSY Higgs at the LHC: Effects of light charginos and neutralinos

#6

G. Belanger (Annecy, LAPTH), F. Boudjema (Annecy, LAPTH), F. Donato (Annecy, LAPTH), R. Godbole (Bangalore, Indian Inst. Sci.), S. Rosier-Lees (Annecy, LAPP) (Jan, 2000)

Published in: *Nucl.Phys.B* 581 (2000) 3-33 • e-Print: [hep-ph/0002039](https://arxiv.org/abs/hep-ph/0002039) [hep-ph]



pdf

2.4 Cosmological Constraints

64 citations

Scenarios with $M_1 = M_2/10$ have very light neutralino LSP into which the Higgs can decay, suppressing quite strongly its visible modes. Accelerator limits still allow for such a possibility. However, it has been known that a very light neutralino LSP can contribute quite substantially to the relic density if all sfermions are light. In the last few years constraints on the cosmological parameters that enter the calculation of the relic density have improved substantially. Various observations [31] suggest to take as a benchmark

to be heavy but allowed the sleptons to be light. To calculate the relic abundance we have relied on a code whose characteristics are outlined in [36]. To help with the discussion we will also give an approximate formula that agrees better than 30% with the results of the full calculation

[36] A. Bottino, V. de Alfaro, N. Fornengo, G. Mignola and M. Pignone, *Astropart. Phys.* **2**, 67 (1994)

Acknowledgments

We would like to thank Sacha Pukhov and Andrei Semenov for help and advice on the use of CompHEP. R.G. acknowledges the hospitality of LAPTH where this work was initi-

hors (F.D.) together with



Lower limit on the neutralino mass in the general MSSM

#3

G. Belanger (Annecy, LAPTH), F. Boudjema (Annecy, LAPTH), A. Cottrant (Annecy, LAPTH), A. Pukhov (SINP, Moscow), S. Rosier-Lees (Annecy, LAPP) (Oct, 2003)

Published in: *JHEP* 03 (2004) 012 • e-Print: [hep-ph/0310037](https://arxiv.org/abs/hep-ph/0310037) [hep-ph]

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 DOI

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 83 citations

The MSSM invisible Higgs in the light of dark matter and g-2

#5

G. Belanger (Annecy, LAPTH), F. Boudjema (Annecy, LAPTH), A. Cottrant (Annecy, LAPTH), R.M. Godbole (Bangalore, Indian Inst. Sci.), A. Semenov (Annecy, LAPTH) (Jun, 2001)

Published in: *Phys.Lett.B* 519 (2001) 93-102 • e-Print: [hep-ph/0106275](#) [hep-ph]

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become very effective. The above formula for the relic density no longer holds then. We use a new code[11] for the calculation of the relic density that tackles all s -channels poles, threshold effects and includes all co-annihilations channels (including slepton, neutralino

and chargino co-annihilations). The program extracts all *exact* matrix elements (for about 500 processes) from CompHEP[12] and is linked to HDECAY[13] and FeynHiggs[14] for the Higgs sector. When possible, checks against DarkSUSY[15] have been performed. The agreement is generally quite good. In the last few years constraints on the cosmological

We would like to thank Sasha Pukhov for his collaboration in the code for the relic density calculation based on CompHEP matrix elements. We also acknowledge a helpful discussion with Fiorenza Donato regarding the latest BOOMERANG results. We have also benefited from comments and discussions with the participants of the Higgs and BSM Working Groups at the *Les Houches 2001 Workshop on Physics at TeV Colliders*. R.G. acknowledges the hospitality of LAPTH where this work was initiated. This work is done under partial financial support of the Indo-French Collaboration IFCPAR-1701-1 *Collider*

[11] G. Bélanger, F. Boudjema, A. Pukhov and A. Semenov, long write-up, in preparation.

MicrOMEGAs: A Program for calculating the relic density in the MSSM

#1

G. Belanger (Annecy, LAPTH), F. Boudjema (Annecy, LAPTH), A. Pukhov (Moscow State U.), A. Semenov (Annecy, LAPTH) (Dec, 2001)

Published in: *Comput.Phys.Commun.* 149 (2002) 103-120 • e-Print: [hep-ph/0112278](https://arxiv.org/abs/hep-ph/0112278) [hep-ph]



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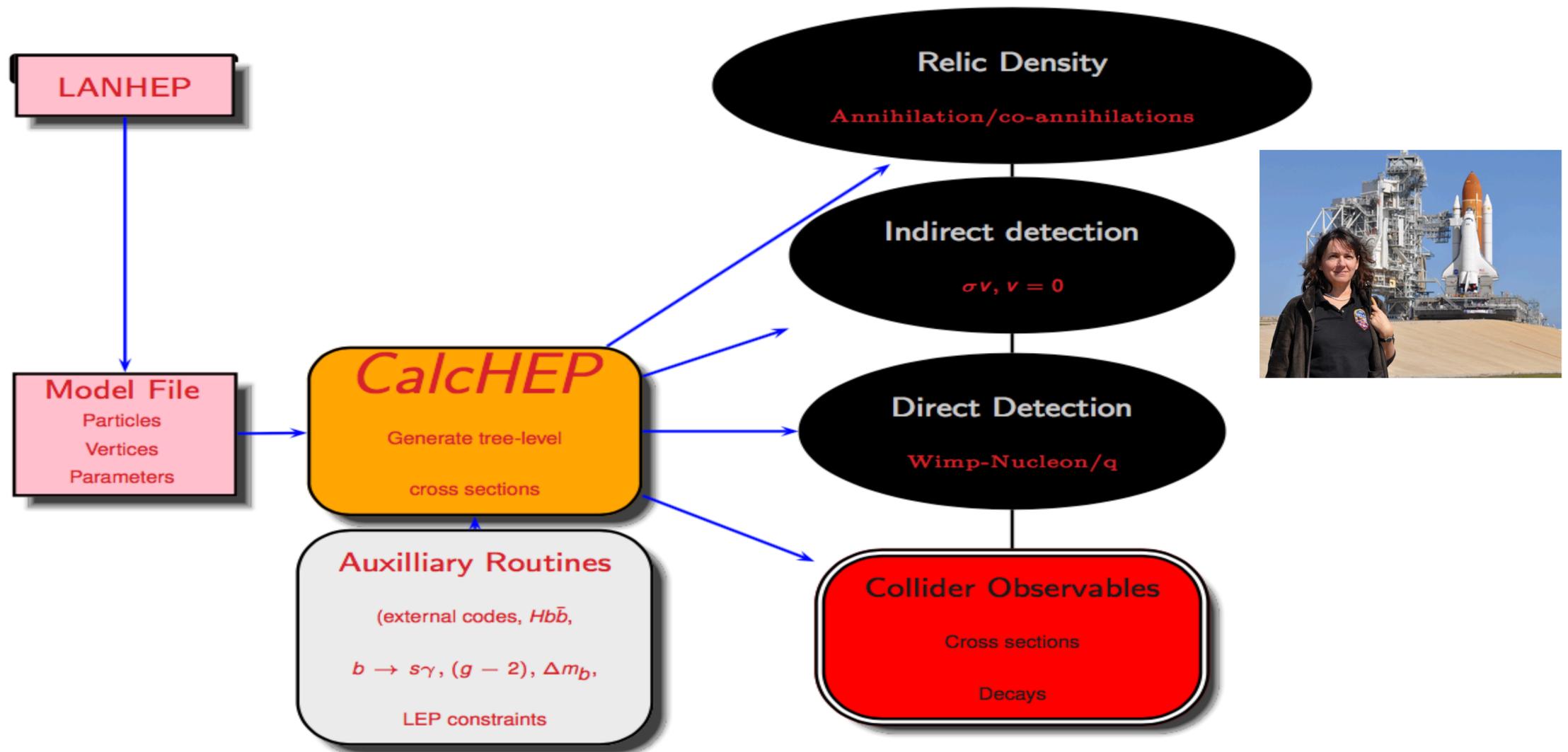
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774 citations



The structure of micrOMEGAs



MicrOMEGAs: a code for the calculation of Dark Matter Properties

including the relic density, direct and indirect rates
in a general supersymmetric model
and other models of New Physics

Geneviève Bélanger, Fawzi Boudjema, Alexander Pukhov and Andrei Semenov

<https://lapth.cnrs.fr/micromegas/>

MicrOMEGAs 4.3 (Generic Model)

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«O atomes intelligents, dans qui l'Etre
éternel s'est plu à manifester son adresse
et sa puissance, vous devez sans doute
goûter des joies bien pures sur votre globe
: car, ayant si peu de matière...»

Micromegas v_4 for the calculation of Relic density Direct detection rates Indirect detection rates

Code to calculate the properties of one or two stable massive particles in a generic model. First developed to compute the relic density of a stable massive particle, the code also computes the rates for direct and indirect detection rates of dark matter. It is assumed that a discrete symmetry like R-parity ensures the stability of the lightest odd particle. All annihilation and coannihilation channels are included in the computation of the relic density. Specific examples of this general approach include the MSSM and various extensions. Extensions to other models can be implemented by the user. The New Physics model first requires to write a new [CalcHEP](#) model file, a package for the automatic generation of squared matrix elements. This can be done through [LanHEP](#). Once this is done, all annihilation and coannihilation channels are included automatically in any model.

The cross-sections for both spin dependent and spin independent interactions of WIMPS on protons are computed automatically as well as the rates for WIMP scattering on nuclei in a large detector.

The neutrino flux and the induced muon flux from DM captured in the Sun and the Earth are computed as well as the exclusion from IceCube22.

Annihilation cross-sections of the dark matter candidate at zero velocity, relevant for indirect detection of dark matter, are also computed automatically. The propagation of charged particles in the Galactic halo is handled with a new module.

The decay widths of all particles in the model as well as the cross-sections for production of any pair of new particles at colliders are computed automatically as well as the production of a pair of dark matter particles with a jet.

Starting from version 4.2, the relic density of two stable massive particles as well as their direct and indirect detection rates are computed. It is assumed that the model contains two dark sectors, each with different transformation properties under a discrete symmetry.

Version 4.3 includes links to HiggsSignals, Lilith and SmodelS to confront a dark model with LHC results on the Higgs and on searches for new particles. The package includes the minimal supersymmetric standard model (MSSM), the NMSSM, the UMSSM, the MSSM with complex phases (CPVMSSM), the little Higgs model (LHM), the inert doublet model (IDM), a inert doublet model with a Z3 discrete symmetry (Z3IDM), and a model with inert doublet and singlet with a Z4 symmetry (Z4IDSM). Facilities to include an arbitrary model are provided.

Other models available:

Z5M : two scalar singlets and a Z5 symmetry

RHNM : right-handed neutrino dark matter

SM4 : SM with a fourth generation of leptons



2001 MO 1







Full 1-loop RC available for 2->3 and 2->4

$e^+e^- \rightarrow \nu\nu H^-$ (1350) GRACE, PLB559(2003)252
Denner et al., NPB660(2003)289

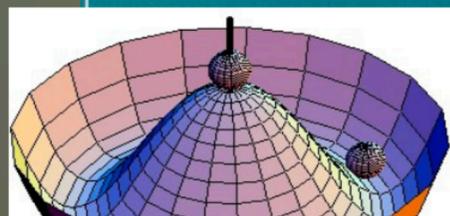
$e^+e^- \rightarrow t\bar{t}H^-$ (2327) GRACE, PLB571(2003)163
You et al., PLB571(2003)85
Denner et al., PLB575(2003)290

$e^+e^- \rightarrow ZHH$ (5417) GRACE, PLB578(2003)152
Zhang et al., PLB578(2004)349

$e^+e^- \rightarrow e^+e^-H$ (4470) GRACE, PLB600(2004)65

$e^+e^- \rightarrow \nu\nu\gamma^-$ $\nu = \nu_\mu, \nu_e$ GRACE, NIM A534(2004)334

$e^+e^- \rightarrow \nu\nu HH^-$ (19638) GRACE, hep-ph/0510184



Volume 430, No. 3, July 2006 ISSN 0370-1573

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PHYSICS REPORTS

A Review Section of Physics Letters

AUTOMATIC CALCULATIONS IN HIGH ENERGY PHYSICS AND GRACE AT ONE-LOOP

G. BÉLANGER, F. BOUDJEMA, J. FUJIMOTO, T. ISHIKAWA, T. KANEKO, K. KATO, Y. SHIMIZU

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SYNDICATE

 0,91

Tools for Dark Matter and the New Physics at the Colliders and in Astrophysics

ToolsDmColl is an ANR project approved for three years starting from January 2008. This is a cross-border particle-astroparticle collaboration involving theorists and experimentalists. The project is to develop, improve, interface and exploit tools for the prediction and analysis of Dark Matter signals from a combination of terrestrial and non terrestrial observations, paying due attention to astrophysical uncertainties and standard model backgrounds at the colliders while covering a wide spectrum of New Physics Models. The project is timely: 2008 is the year that will see the start of the LHC, the launch of Planck and a few astrophysics experiments. The physicists involved are members of four different laboratories: LAPTh and LAPP in Annecy-le-Vieux, LPSC in Grenoble and IAP in Paris.






Project: Projet BLAN07-2_194882

Home

CDMS to announce new results on Dark Matter? PDF PRINT EMAIL

Written by fawzy
Tuesday, 15 December 2009

Fermilab physicist Lauren Hsu will present a talk on the new results at Fermilab on Thursday, Dec.

NEWS FLASH

Glast is finally launched
[Details...](#)

Glast Launch postponed
[Details...](#)

Xenon10 Results [Details...](#)

LHC Physics Start @ 40TeV

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- [Le Monde parle de HESS et met Armand FIASSON à l'affiche](#)
- [CDMS to announce new results on Dark Matter?](#)
- [LHC Reschedule: Collisions in October 2009](#)
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- [LHC start-up, beam on Sept. 10th \(2008\)](#)
- [Glast is finally launched](#)
- [Glast Launch postponed](#)

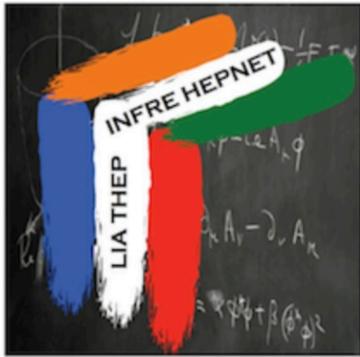
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LIA's and International Collaborations, IndoFrench 2016



IndoFrench High Energy Physics Collaboration

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 - [CMS Working Group](#)
- [Visits](#)
 - [Application form \(restricted\)](#)

Indo French Collaboration on High Energy Physics

The IndoFrench Collaboration on high Energy Physics is a network which is the results of two initiatives:

- LIA (Laboratoire International Associé) THEP (Theoretical High Energy Physics) funded by the Institute of Physics of the CNRS. This a network of theoretical physicists working in HEP in France and India who have had a strong collaboration since the early 1990's.
- The INFRE-HEPNET (IndoFrench Network on High Energy Physics) funded by CEFIPRA/IFCPAR (Indo-French Centre for the Promotion of Advanced Research) includes many of the theorists involved in the LIA THEP as well as





*Text
15/06/2011*

15/06/2011. LH



CENTRE FOR HIGH ENERGY PHYSICS **CHEP**

JOURNEYS IN PARTICLE PHYSICS - ROHINI M. GODBOLE MEMORIAL CONFERENCE
March 13 - 15, 2025
New Physical Sciences Auditorium
Special Session on 14-03-2025
Reminiscence:
Evening dedicated to Prof. Rohini M. Godbole

A brilliant researcher. A visionary leader
Champion of women in Science,
passionate advocate for women in science, she
broke barriers and paved the way for future
generations, leaving an indelible mark on the scientific
community.
Prof. Rohini M. Godbole was everything a physicist
could dream to be.

organizers:
Belanger, Biplob Bhattacharjee, Fawzi Duda
Srinivasan, Srinivasan, Srinivasan, Srinivasan,
Srinivasan David, Xerxes Tata, Sudhir Vempati



Bangalore spring 2025

