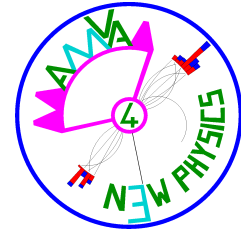




School of **Statistics**

Sabine Crépe-Renaudin
for the organising committee



7th edition of the IN2P3 School of Statistics

- For whom? → PhD, Postdoc, staff
- When? → 11-15 May 2020
- Where? → most likely Carry-Le-Rouet, in Marseille neighbourhood
- School language? → English
- General web site: <http://sos.in2p3.fr>
- SOS 2020 indico: <https://indico.in2p3.fr/e/sos2020>

Origin

- First edition: SOS 2008
- Statistics and corresponding tools are at the heart of data reconstruction and analysis in our fields
- Strong request from the community to complement and deepen initial training in statistics and tools and to get training on new methods

Aim

- **Describe, explain and manipulate** statistical concepts and tools to allow very good understanding of statistical tools and get strong skills to have real impact on our work and be competitive and visible in our collaborations

SOS 2020: organisation

Organising committee:

- Johan Bregeon (formerly LUPM Montpellier, now LPSC Grenoble)
- Eric Chabert (IPHC Strasbourg)
- Nicolas Chanon (IPNL Lyon)
- Yann Coadou (CPPM Marseille)
- Sabine Crépe-Renaudin (LPSC Grenoble) [chair]
- Laurent Derome (LPSC Grenoble)
- Julien Donini (LPC Clermont)
- Guillaume Mention (CEA DPHP Saclay)
- David Rousseau (IJCLab Orsay)

Administrative support:

- Angélique Pèpe (CPPM Marseille)
- DR12

SOS 2020: philosophy

One week in an relatively* isolated place, allows

- to foster discussions between participants and between participants and lecturers
 - Lecturers are encouraged to stay during the whole week
 - Keep enough time to allow discussions and answer questions during and between the lectures
- A free afternoon to discuss or get some fresh air

Program with 3 main components

- Fundamental concepts
 - to consolidate the basis knowledge
- Multivariate analysis and machine learning
 - with more and more emphasis on ML
- Hands on sessions
 - time dedicated to exercises and training increased a lot in the last 2-3 editions

* not too isolated to be easily reachable from IN2P3 labs

SOS 2020: program

Agenda over the week

L = lecture

P = Practice

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Welcome	Machine Learning (L)	Deep Learning (L)	Limit/Syst (L)	Deep Learning @ collider (L)
		BDT/TMVA (L)	Machine Learning (P)	Limit/Syst (L)	Deep Learning @ astro (L)
Afternoon	Basic concepts (L)	Scikitlearn, BDT (P)	Free	Deep Learning (P)	The End
	Basic concepts (L)				

SOS 2020: teachers

- Romain Madar (LPC Clermont): Fundamental Concepts
- Glen Cowan (RHBNC London): Limits, CLs, Systematics
- Vincent Barra (LIMOS Clermont-Fd): Machine Learning
- Yann Coadou (CPPM Marseille): BDT, TMVA
- Michael Kagan (SLAC): Deep Learning
- J-R Vlimant (Caltech): Deep Learning @ collider
- Thomas Vuillaume (LAPP Annecy): Multitask Learning @ CTA
- Guillaume Mention (CEA Saclay): Practise fundamental concept
- David Rousseau (IJClab Orsay): Practise Machine Learning
- In discussion: Practise Deep Learning

SOS 2020

We hope to welcome you in May at Carry !



Further information and registration date will be sent soon and will appear on the indico page

<https://indico.in2p3.fr/e/sos2020>