

**STRONG-2020**



## **Annual Meeting**

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**STRONG-2020: Status of TAs and VAs**

Emine Ametsheva (CNRS, Subatech)

# Research infrastructures: Transnational Access (TA)

COSY

- Dieter Grzonka
- Jülich, Germany



LNF

- Catalina Curceanu/Carlo Guaraldo
- Frascati, Italy



MAMI

- Achim Denig
- Mainz, Germany



ECT\*

- Gert Aarts
- Trento, Italy



GSI

- Yvonne Leifels
- Darmstadt, Germany



CERN

- David d'Enterria
- Geneva, Switzerland



FTD/  
ELSA

- Hartmut Schmieden
- Bonn, Germany



# Research infrastructures: Virtual Access (VA)

## VA1- NLOAccess

- Jean-Philippe Lansberg
- CNRS, France

The logo for NLOAccess is a horizontal orange bar with a textured, flame-like pattern. The text "NLOAccess" is written in a bold, white, sans-serif font across the center of the bar.

**NLOAccess**

*Extension of the well-known MadGraph automated on-line code for the novel computation of perturbative QCD cross sections in high-energy hadronic collisions at next-to-leading- order (NLO) accuracy, using meson and heavy-ion beams, and for quarkonia final-states*



## VA2- 3DPartons

- Valerio Bertone
- CEA, France

*Development of a new combined framework to extract generalized (GPDs) and transverse momentum-dependent (TMDs) parton distributions, with higher-order fixed and twist corrections, from fits to experimental e-p and p-p data (handled in a Rivet-like format)*

# Last Amendment (8 months extension)

➤ *Figures communicated by TA leaders concerning the access provided and to be provided (situation by 01/06/2023). This information was used for the last Amendment*

Infrastructure Short Name	Min. Quantity of Access to be provided (GA)	Access provided in RP1	Access provided in RP2	Access provided in the period 01/06/2022-31/03/2023	Access to be provided during the rest of the project
TA1-COSY	1600	648	1040	0	88
TA2-MAMI	1750	178	152	341	1079
TA3-LNF	2500	820	1170	195	315
TA4-ELSA	1400	0	677	230	493
TA5-GSI	1450	0	860	244	346
TA6-ECT*	1900	253	611	440	596
TA7-CERN	3000	235	672	369	1724

## COSY

- Dieter Grzonka
- Jülich, Germany

- The amount of access provided during the last year (supported by the project): **288 beam hours**
- Minimum Quantity of Access to be provided (according to GA): **1600**
- The total access provided during the whole project duration: **1976 beam hours**
- Access to be provided during the rest of the project: exceeded by **+ 376**
- Potential problems until the end of the project: None

***The COSY operation stopped end of September 2023, therefore there will be no further access up to the end of the project***

**MAMI**

- Achim Denig
- Mainz, Germany

- The amount of access provided during the last year (supported by the project):
  - 06/22 - 03/23: **378 beam hours**
  - 04/23 - 10/23: **546 beam hours** (assuming a 30% fraction of the total MAMI beam time taken)
- Minimum Quantity of Access to be provided (according to GA): **1750**
- Access to be provided during the rest of the project (11/23 - 06/24): **533**
- Potential problems until the end of the project:
  - In case that Germany would run into a potential energy crisis, an extended shutdown could become possible.
  - However, such a scenario seems to be unlikely

***There actually appears to be a very strong demand for beam time in 2024***

LNF

- Catalina Curceanu/Carlo Guaraldo
- Frascati, Italy

- The amount of access provided during the last year (supported by the project): **1152** beam hours
- Minimum Quantity of Access to be provided (according to GA): **2500**
- Access to be provided during the rest of the project: **1000** beam hours
- Potential problems until the end of the project:
  - Some extra funds left to be used before the end of the project

***LNF would provide about 1500 beam hours more than foreseen in GA  
taking into consideration the additional extension and the intensified DAFNE collider activity  
during this last year, which will be continued in 2024***

## FTD/ ELSA

- Hartmut Schmieden
- Bonn, Germany

- The amount of access provided during the last year (supported by the project): **244 AU**
- Minimum Quantity of Access to be provided (according to GA): **1400**
- The total access provided during the whole project duration: **907 AU**
- Access to be provided during the rest of the project: ~ **200 AU**
- Potential problems until the end of the project:
  - The total amount of access foreseen in the GA will not be ensured (lack of - **300 AU**)

***At present, it is to assume that the TA can deliver ~ 1100 AU until 07/2024***



GSI

- Yvonne Leifels
- Darmstadt, Germany

- The amount of access provided during the last year (supported by the project): **1025 beam hours**
- Minimum Quantity of Access to be provided (according to GA): **1450**
- Access to be provided during the rest of the project: **600 beam hours**
- The total access that will be provided during the whole project duration: **1625 beam hours**
- Potential problems until the end of the project: None

*The total access provided by the end of the project will be exceeded by ~ +175*

ECT\*

- Gert Aarts
- Trento, Italy

- The amount of access provided during the last year (supported by the project): in 2022, ECT\* provided **561 accesses** (=Access/Unit Costs)
- Minimum Quantity of Access to be provided (according to GA): **1900**
- Access to be provided during the rest of the project: **1300** access-days
  - 879 access-days in 2023
  - 421 (estimated) in 2024 (for 2023-2024, the numbers distributed over the 7 planned workshops).
- Potential problems until the end of the project: None

***The overall quantity of access provided over the project duration will be greater than the estimate given in the GA***

CERN

- David d'Enterria
- Geneva, Switzerland

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- The amount of access provided during the last year (supported by the project): **416 person-days** (approved for 610 requested)
  - Minimum Quantity of Access to be provided (according to GA): **1330**
  - Access to be provided during the rest of the project: **about 450 person-days**
  - Potential problems until the end of the project: None

## VA1- NLOAccess

- Jean-Philippe Lansberg
- CNRS, France

- Number of registered users : **543** (as of 9/11/2023)
  - with distribution over continents (+**175** users in the last year)
- Number of runs : **more than 4400** (more than 500 runs in the last year)
- e-infrastructure services provided:
  - common services: data generation & storage of the generated data
  - thematic services: access to self-generated codes based on the user request
- Potential problems until the end of the project: None

***Overall, the work program foreseen in the Grant Agreement has been fully accomplished***

## VA2- 3DPartons

- Valerio Bertone
- CEA, France

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- According to our profiler (PIWIK), in the period between 01/06/2023 and 13/11/2023, the performance of the PARTONS website has been the following:
    - Number of visitors: **730**
    - Sessions: **1043**
    - Page views: **3147**
  - Until the end of the project, it is expected to have a similar number of accesses (~**700** users)
  - Potential problems until the end of the project: None

***Overall, the work program foreseen in the Grant Agreement has been fully accomplished***