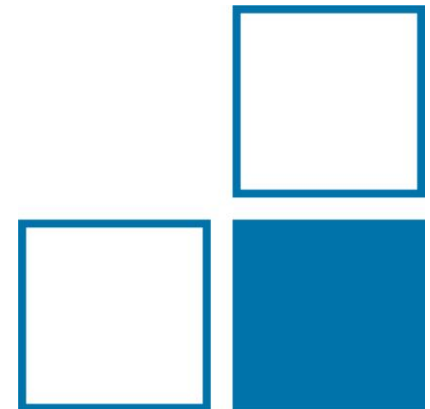


Status of the ARIEL TA Facilities and Projects

R. Nolte



Status of the ARIEL TA Facilities



Survey in February 2021:

| | | | |
|----------|-------------|------------|--|
| BNC | Belgysa | 03.02.2021 | operating, only remote access , no personal contact with staff possible, education and training delayed |
| JYFL | Penttilä | 24.02.2021 | operating, only internal users and commercial services |
| NESSA | Prokofiev | 02.02.2021 | NESSA construction going on, n-generator delayed, hope to be operational in 2022 |
| ALTO | Wilson | | |
| IFIN | Sava | 02.02.2021 | operating, no external (non-national ?) users , 14 days quarantine for EU countries |
| CVR | Kostal | | |
| HISPANOS | Fernandez | 24.02.2021 | fully operational, only national users , sanitary rules apply |
| NPL | Bunce | 02.02.2021 | operational , hosted national users, 10 days quarantine for foreigners |
| JRC | Plompen | | |
| SCK | Wagemans | 03.02.2021 | BR1 operating, open for external user , Belgium rules apply |
| nTOF | Vlachoudis | | |
| FNG | Fiore | 01.02.2021 | closed until Easter, will restart planning if Covid situation is stable for two months |
| PIAF | Nolte | 01.02.2021 | operating for internal users, external user with remote control |
| UIF | Majerle | 01.02.2021 | neutron generators operating , projects with national external user were carried out, presently access to site is limited, cyclotron will be upgraded in second half 2021 , expected downtime 6 months |
| nELBE | Beyer | 01.02.2021 | resume operation in mid February, delayed projects were re-submitted |
| ARGOR | Brandenburg | 01.02.2021 | operating for national users, excess impossible for foreigners due to quarantine regulations |
| GENESIS | Billeaud | 01.02.2021 | operating, max. two users from 8:00 - 17:00 , curfew after 18:00, national travel restrictions of user countries apply |
| AMANDE | Gressier | 03.02.2021 | operating nominally , mostly national users, foreign users possible |
| ILL | Köster | | reactor started beginning of Feb. , many experiments of external users performed by inhouse scientist, non-EU users need quarantine and tests |

Status of approved TA projects



| ARIEL TA: Status of Accepted Experiments 2021-05 | | | | | | | | |
|--|-----------------|----------------------|---|----------|------------------|--------------|----------------|--|
| PAC code | Spokesperson | Institute | Title | Facility | Facility contact | Time granted | Time delivered | Status |
| TAA_1_2 | Michal Kostal | CVR Rez | Response matrix of stilbene and new detection materials | PIAF | Ralf Nolte | 64 h | 32 h | Split in two runs, first run completed, travel restrictions in Czech Republic still effective |
| TAA_1_3 | Gregory Lehaut | LPC Caen | SCALP(CF4) @ nELBE | nELBE | Roland Beyer | 168 h | | Original proposal to nELBE PAC expired, resubmission was not successful due to Covid-Related overbooking of nELBE. Another resubmission envisaged. |
| TAA_1_4 | Massimo Nocente | U of Milano-Biococca | Characterization of the neutron response function of a CLYC scintillator crystal for fusion plasma applications | HISPANOS | Carlos Guerrero | 60 h | | Will run the experiment in September/October 2021, hopefully with them at our laboratory, but otherwise running online |
| TAA_1_5 | Alberto Boso | NPL | Activation of a Sb-Be monoenergetic neutron source via thermal neutron irradiation | CVR | Michal Kostal | 1 h | | No news from NPL. Alberto Boso left NPL. |
| TAA_1_6 | Alix Sardet | CEA | Response function and calibration of a compact fast neutron spectrometer using a stilbene crystal | PIAF | Ralf Nolte | 90 h | 116 h | Exp. finished, analysis under way |
| TAA_2_2 | Greg Henning | CNRS | Proton inelastic scattering cross sections on ⁴⁰ Ca | IFIN_HH | Tiberiu Sava | 168 h | | Accelerator ready, experiment to be programmed starting with September 2021 |
| TAA_2_3 | Stephan Pomp | UU | Isomeric yield ratios and fission fragment angular momentum in alpha-induced fission of ²³² Th | JFYL | Heikki Penttilä | 100 h | | Experiment has not been scheduled, largely due to Covid 19 access restrictions. Will try to scheduled on the earliest possible time after August 2021. |
| TAA_2_4 | Marcus Nyman | JRC | Photoactivation of accelerator beamline and beam dump materials | nELBE | Roland Beyer | 120 h | | Proposal for test beam time rejected by nELBE PAC. Submission of the final proposal planned for second half of 2021 |