

Fast neutron physics at NFS Workshop

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Wednesday, April 13

Session 1: NFS Status (Chair A. M. Frelin)

- 14:00 - 14:10 « Welcome », **F. Farget**
14:10 - 14:40 « Presentation of the facility », **X. Ledoux**
14:40 - 15:10 « Commissioning results », **D. Ramos**

Session 2: Experiments already performed (Chair J. E. Ducret)

- 15:10 - 15:35 E800: « LIONS - Light-Ion Production Studies with Medley at the NFS facility », **A. Prokofiev**
15:35 - 16:00 Coffee break
16:00 - 16:25 E811: « Study of (n,alpha) reactions of interest for nuclear reactors - the SCALP Project »,
A. Chevalier
16:25 - 16:50 E807: « Study of the (n,xn) and (n,f) reactions for ^{238}U », **B. Fraisse**
16:50 - 17:15 E799: « Excitation functions of short-lived isotopes in proton-induced reactions on $^{\text{nat}}\text{Fe}$ »,
E. Simeckova

Session 3: Letters of Intent (Chair D. Ramos)

- 17:15 - 17:35 LOI21 « Resolving uncertainties in n-n scattering length from complete precision
measurements of D(n,p)2n reaction at NFS: a help to NN model developers », **B. Fernandez**
17:35 - 17:55 LOI 9 « (n,xn g) reaction cross sections measurements for nuclear energy applications »,
M. Kerveno

19:30 Diner: Le Carlota (downtown)

Thursday, April 14

Session 4: Accepted experiments (Chair F. De Oliveira)

- 09:00 - 09:20 E804: « Measurement of fission cross section standards relative to elastic n-p scattering at neutron energies 1 - 40 MeV », **D. Tarrio**
09:20 - 09:40 E814: « ^{235}U Fission fragment study with FALSTAFF at NFS », **D. Doré**
09:40 - 10:00 E833: « Pygmy dipole resonance in ^{140}Ce using the (n,n'g) reaction at NFS », **M. Vandebrouck and I. Matea**
10:00 - 10:20 E835: « Measurement of the neutron induced activation in materials: improvement of nuclear reaction models and decay data libraries for the specific case of radiation therapy accelerators »,
V. Blideanu
10:20 - 10:40 E838: « Shedding new light on the structure of ^{56}Ni using (n,3n) reaction at NFS », **E. Clément**

10:40 - 11:10 Coffee break

Session 5a: Fast neutron programs at other neutron facilities (chair F. Gunsing)

- 11:10 - 11:30 "Fast neutron physics at n_TOF at Cern", **A. Mengoni**
11:30 - 11:50 "Fast neutron physics at JRC-Geel", **A. Plompen**
11:50 - 12:10 "Fast neutron physics at nELBE", **A. Junghans**
12:10 - 12:30 "Fast neutron physics at NPI-Rez", **M. Majerle**

12:30 - 14:00 Lunch

Session 6: Theory and evaluation, data needs and future programs (chair M. Kerveno)

- 14:00 - 14:25 "Pre-equilibrium studies", **M. Dupuis**
14:25 - 14:50 "Fission model improvements", **S. Obertstedt**
14:50 - 15:15 "Nuclear data needs for fast neutron evaluations", **R. Capote**

Session 5b: Fast neutron programs at other neutron facilities

- 15:15 - 15:35 "Fast Neutron Measurements at RPI", **Y. Danon**
15:35 - 15:55 "Fast neutron physics at LANSCE", **A. Couture**

15:55 - 16:20 Coffee break

- 16:20 - 16:40 "(in)elastic Scattering measurements", **A. Negret**
16:40 - 17:00 "Total reaction cross-section measurements", **A. Junghans**
17:00 - 18:00 Discussions