Fast neutron physics at NFS Workshop
Preliminary program

Wednesday, April 13

Session 1: NFS Status
14:00 - 14:10  Welcome
14:10 - 14:40  « Presentation of the facility », X. Ledoux
14:40 - 15:10  « Commissioning results », D. Ramos

Session 2: Experiments already performed
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 238U », B. Fraisse

Session 3: Letters of Intent
17:15 - 17:35  LOI 7 « New Judicious Experiments for Dark sectors Investigations at SPIRAL2 », B. Bastin
17:35 - 17:55  LOI 9 « (n,xn g) reaction cross sections measurements for nuclear energy applications », M. Kerveno
17:55 - 18:15  E855-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
19:30  Diner
Thursday, April 14

Session 4: Accepted experiments

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

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

14:00 - 14:25  “Pre-equilibrium studies”, M. Dupuis
14:25 - 14:50  “Fission model improvements”, S. Obertstedt
14:50 - 15:05  “Nuclear data needs for fast neutron evaluations”, R. Capote

Session 5b: Fast neutron programs at other neutron facilities

15:05 - 15:25  “Fast Neutron Measurements at RPI”, Y. Danon
15:25 - 15:45  “Fast neutron physics at LANSCE”, A. Couture

15:45 - 16:10  Coffee break

16:10 - 16:30  “(in)elastic Scattering measurements”, A. Negret
16:30 - 16:50  “Total reaction cross-section measurements”, A. Junghans
16:50 - 18:00  Discussions