

**Physique pour l'énergie nucléaire****Publications 2004-2006****Données nucléaires et modélisation****DAPNIA****2006****Articles de revues**

MARIE F., LETOURNEAU A., FIONI G., DERUELLE O., et al  
**Thermal neutron capture cross-section measurements of  $^{243}\text{Am}$  and  $^{242}\text{Pu}$  using the new Mini-INCA alpha and gamma-spectroscopy station.**

*Nuclear Instruments and Methods A Vol. 556 N° 2 (2006) 547-555*

ROIG O., LETOURNEAU A., MARIE F., VEYSSIERE C., et al.  
**Evidence for inelastic neutron acceleration by the  $^{177}\text{Lu}$  isomer.**

*Physical Review C Vol. 74 N° 5 (2006) 054604*

**SPHN****2004****Articles de revues****EXPERIMENT**

ABBONDANNO U., et al (AERTS G., ANDRIAMONJE S., BERTHOUMIEUX E., GUNSING F., PANCIN J., PERROT L.)

**New Experimental validation of the Pulse Height Weighting Technique for Capture Cross Section Measurements.**

*Nuclear Instruments and Methods A Vol. 521 N° 2-3 (2004) 454-467*

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**Neutron capture cross section measurement of  $^{151}\text{Sm}$  at the CERN neutron time of flight facility (n\_TOF).**

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**Measurement of a complete set of nuclides, cross sections, and kinetic energies in spallation of  $^{238}\text{U}$  1A GeV with protons.**

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PETIT M., et al (ANDRIAMONJE S., BOUCHEZ E., GUNSING F., HÜRSTEL A., LECOZ Y., LUCAS R., THEISEN C.)

**Determination of the  $^{233}\text{Pa}(n,f)$  reaction cross section from 0.5 to 10 MeV neutron energy using the transfer reaction  $^{232}\text{Th}(^3\text{He},p)^{234}\text{Pa}$ .**

*Nuclear Physics A Vol. 735 N° 3-4 (2004), 345-371*

PEREIRA J, et al (BOUDARD A., LEGRAIN R., LERAY S., WLAZLO W., VOLANT C.)

**Dynamics of spallation reactions investigated from production cross sections of residual nuclei in collisions induced by U-238 at 1 A center dot GeV on proton and deuterium.**

*Nuclear Physics A Vol. 734 (2004), 221-224*

## **INSTRUMENTATION**

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**Time-energy relation of the n\_TOF neutron beam: energy standards revisited.**

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**Measurement of the nTOF beam profile with a micromegas detector.**

*Nuclear Instruments and Methods A Vol. 524 N° 1-3 (2004), 102-114*

## **MODELLING**

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*Nuclear Physics A Vol. 740 N° 1-2 (2004), 195-210*

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*Nuclear Engineering and Design Vol. 231 N° 1 (2004), 67-88*

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FERNANDEZ-DOMING B., BOUDARD A., DUCRET J.E., LEGRAIN R., LERAY S., VOLANT C., et al

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*Nuclear Physics A Vol. 747 N° 2-4 (2005), 227-267*

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*Nuclear Science and Engineering Vol. 151 N° 3 (2005), 335-343*

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*Annals of Nuclear Energy Vol. 32 N° 8 (2005), 795-811*

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**Evaluation of the radiological consequences of  $^{14}\text{C}$  due to contaminated Ignalina NPP graphite incineration.**

*Lithuanian Journal of Physics Vol. 45 N° 5 (2005), 383*

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**MCNP and ORIGEN codes validation by calculating RBMK spent nuclear fuel isotopic composition.**

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*Nuclear Physics A Vol. 765 N° 1-2 (2006), 197-210*

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**Determination of the  $^{233}\text{Pa}(n,\gamma)$  capture cross section up to neutron energies of 1 MeV using the transfer reaction  $^{232}\text{Th}(^3\text{He},\text{P})^{234}\text{Pa}^*$ .**

*Nuclear Physics A Vol. 775 N° 3-4 (2006), 175-187*

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**Isotopic production cross sections of spallation-evaporation residues from reactions of  $^{238}\text{U}(1\text{A GeV})$  with deuterium.**

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*Physical Review C Vol. 74 N° 2 (2006), 025807*

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**Charged-particle evaporation and pre-equilibrium emission in 1.2 GeV proton-induced spallation reactions.**

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*Physical Review C Vol. 73 N° 3 (2006), 034604*

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**Light nuclides produced in the proton-induced spallation of  $^{238}\text{U}$  at 1 GeV.**

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## **INSTRUMENTATION**

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*Nuclear Instruments and Methods A Vol. 566 N° 2 (2006), 633-653*

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**Evaluation of Radiation Shielding of RBMK-1500 Spent Nuclear Fuel Containers.**

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### **Au service de la fusion**

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**IFMIF accelerator facility.**

*Journal of Nuclear Materials Vol. 329-33 (2004) 193-197*

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