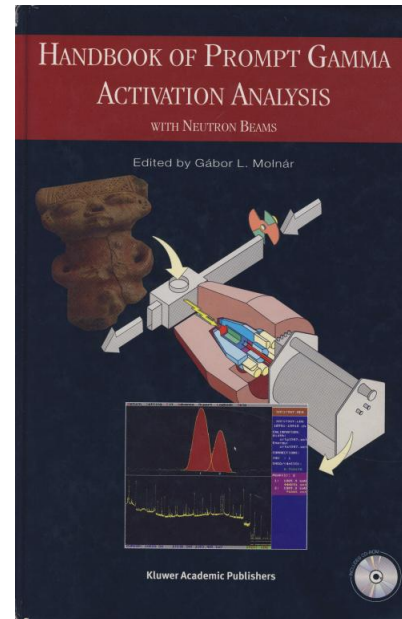
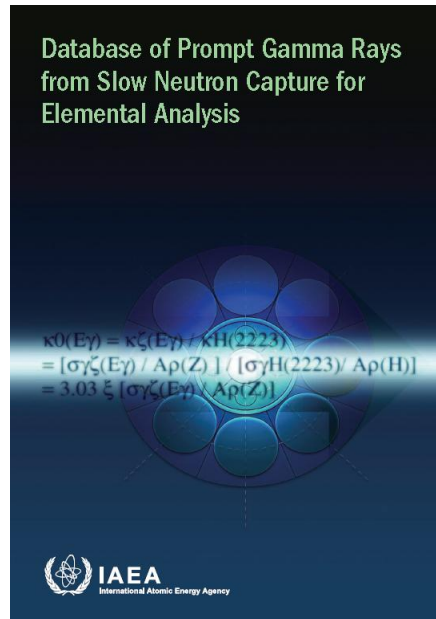


EGAF Status Report

Richard B. Firestone

Isotopes Project, Lawrence Berkeley National Laboratory,
Berkeley, CA 94720



Nuclear Data Week 2012

EGAF Collaboration

- **LBNL Isotopes Project** – R.B. Firestone, S. Basunia, A. Hurst, A. Rogers
- **LLNL ENDF Capture γ -ray Library** – B. Sleaford, N. Summers, J. Escher
- **Budapest Reactor** – Zs. Revay, T. Belgya, L. Szentmiklosi
- **Garching Reactor** – Zs. Revay, P. Kudejova
- **DICEBOX Calculations** – M. Krticka, Charles University, Prague
- **National Ignition Facility (NIF)/LBNL 88" Cyclotron** – L. Bernstein
- **UC Berkeley, Nuclear Engineering** – K. van Bibber, K.-N. Leung
- **Jülich Forschungszentrum** – M. Rossbach, C. Genreith
- **University of Jordan** K. Abusaleem
- **IAEA EGAF/RIPL** – D. Abriola, R. Capote
- **DDEP** – M. Bé, M. Kellett

EGAF Project

Experimental

Budapest Reactor – thermal (n, γ)

Garching FRM-II - thermal (n, γ)

UCB NE – 2.5 MeV (n, γ)

LBNL Cyclotron - <50 MeV (n, γ)

LLNL (NIF) – Plasma (n, γ)

Theoretical

DICEBOX – statistical model

Evaluation

Cross sections – σ_{γ} , σ_0

DDEP decay – P_{γ} , σ_{γ}

RIPL – Adopted Levels, Gammas

Masses - S_n

EGAF Status

ENDF

Z=1-19 submitted

Experiments

$^{70,72,73,74,76}\text{Ge}$, $^{90,91,92,94,96}\text{Zr}(n,\gamma)$ E=th: approved FRM-II

$^{238}\text{U}(n,\gamma)$: approved Budapest

^3He , $^{239,240}\text{Pu}$, $^{241,243}\text{Am}(n,\gamma)$: proposed FRM-II

2.5 MeV activation cross sections: proposed

NIF (n,x) activation cross sections: proposed

88" (n,x) activation cross sections: proposed

Evaluations 2012

Completed: Z=1-19, $^{151,153}\text{Eu}$, $^{155,157}\text{Gd}$, $^{182,183,184,186}\text{W}$

In progress: $^{54,56,57,58}\text{Fe}$, $^{63,65}\text{Cu}$, ^{89}Y , ^{180}W , ^{237}Np , ^{238}U , ^{241}Pu

Published

$^{102,104,105,106,108,110}\text{Pd}$: PRC **77**, 054615 (2008)

$^{39,40,41}\text{K}$: submitted to PRC (2012)

THANK YOU FOR YOUR ATTENTION



FRM-II, Garching, Germany



Budapest Research Reactor