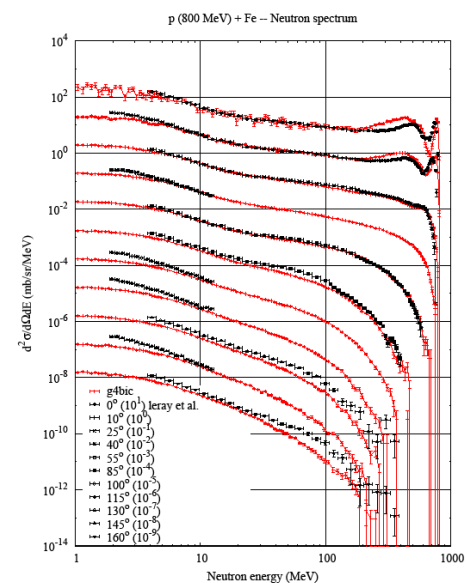
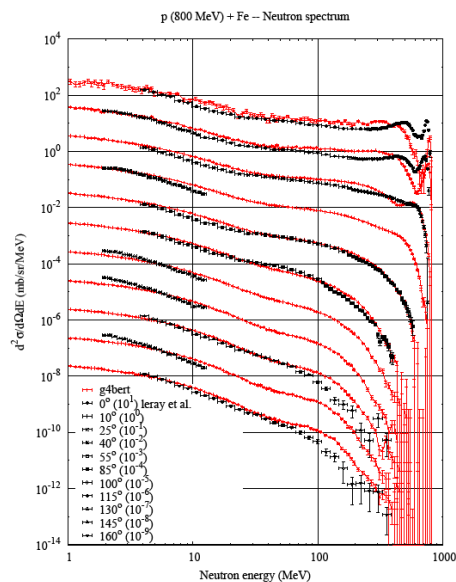
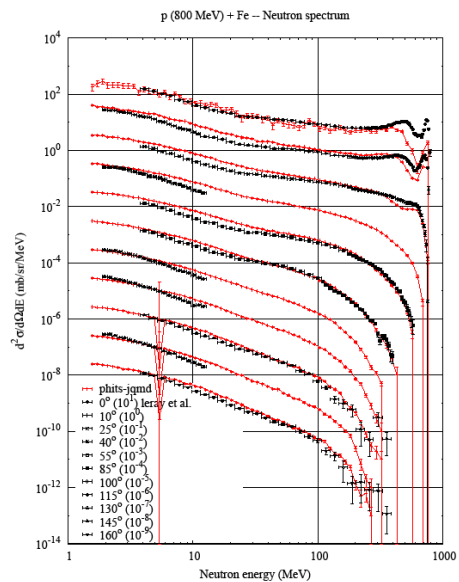
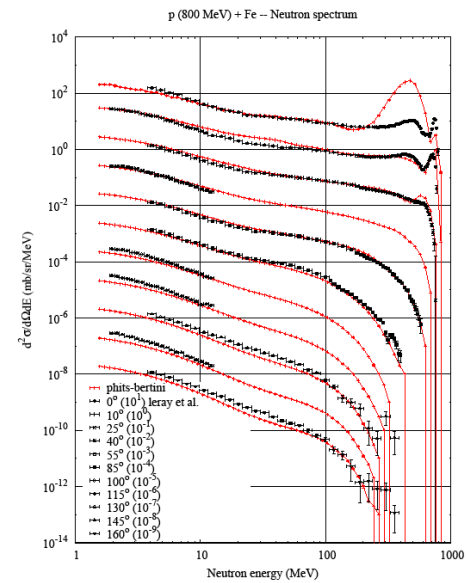
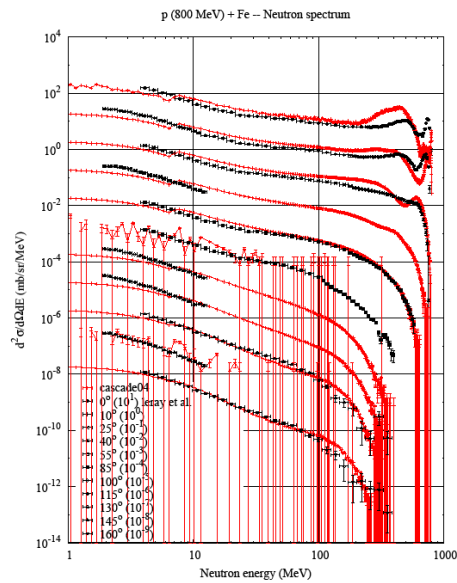
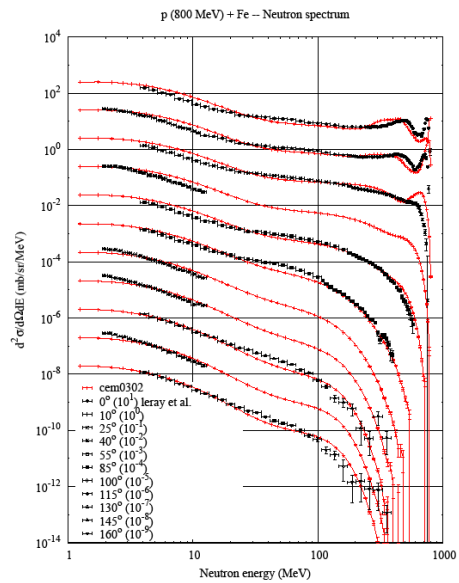


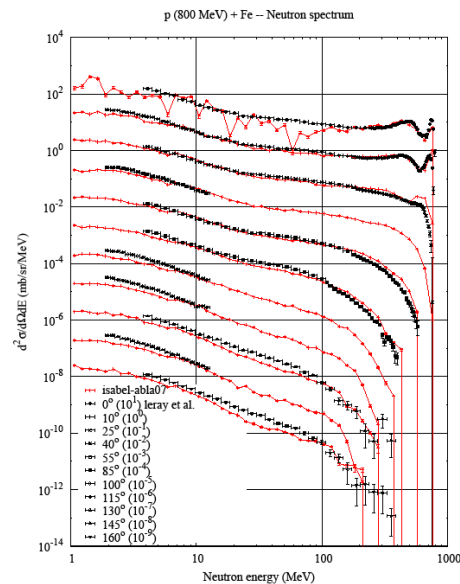
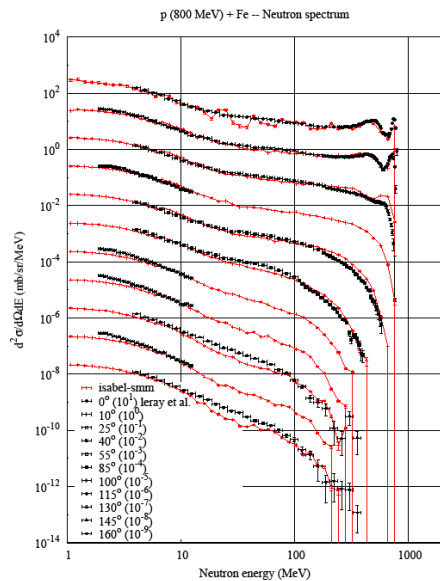
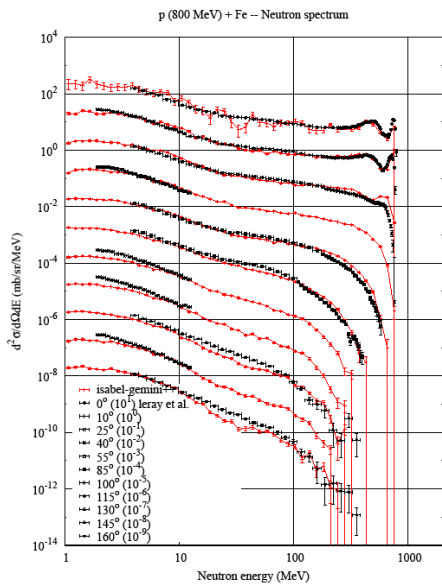
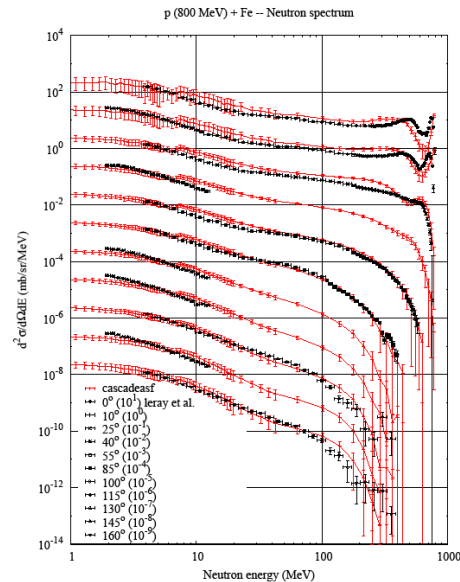
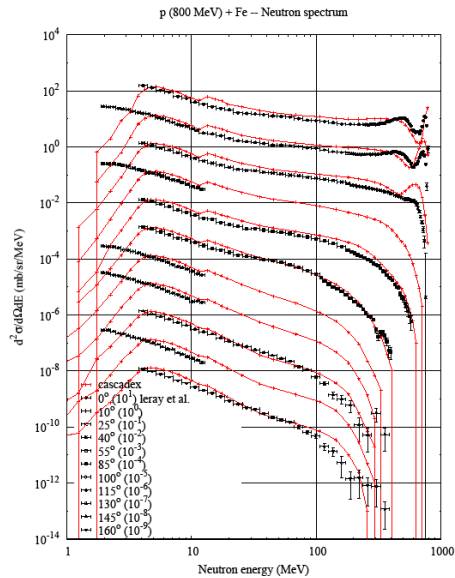
Spallation reactions consultants meeting
IAEA, Oct. 6-7, 2009 Vienna

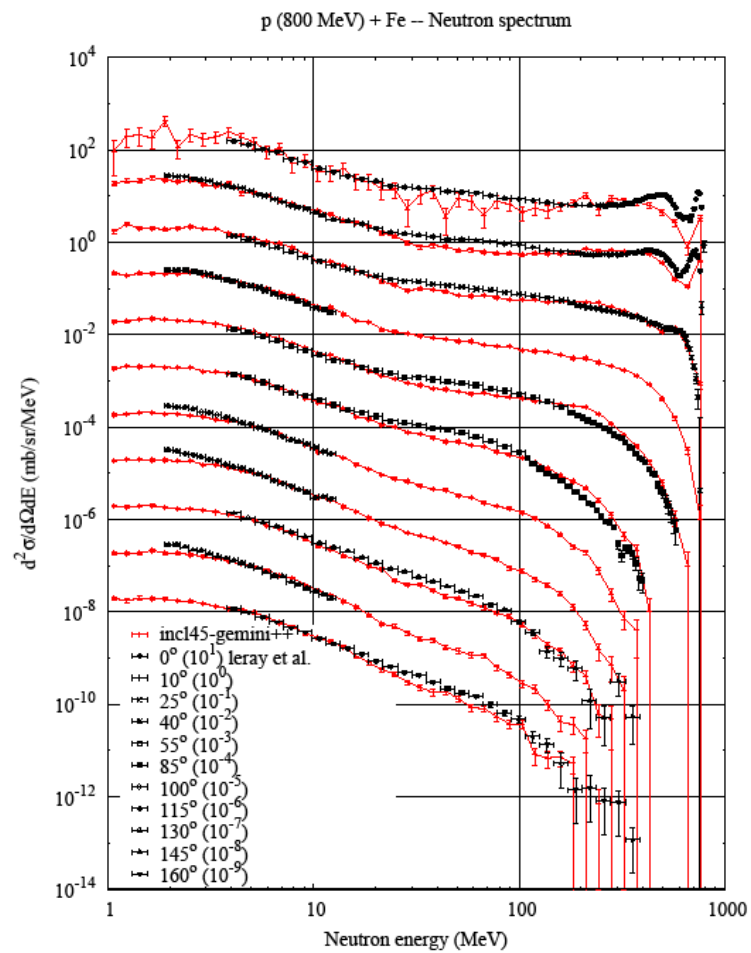
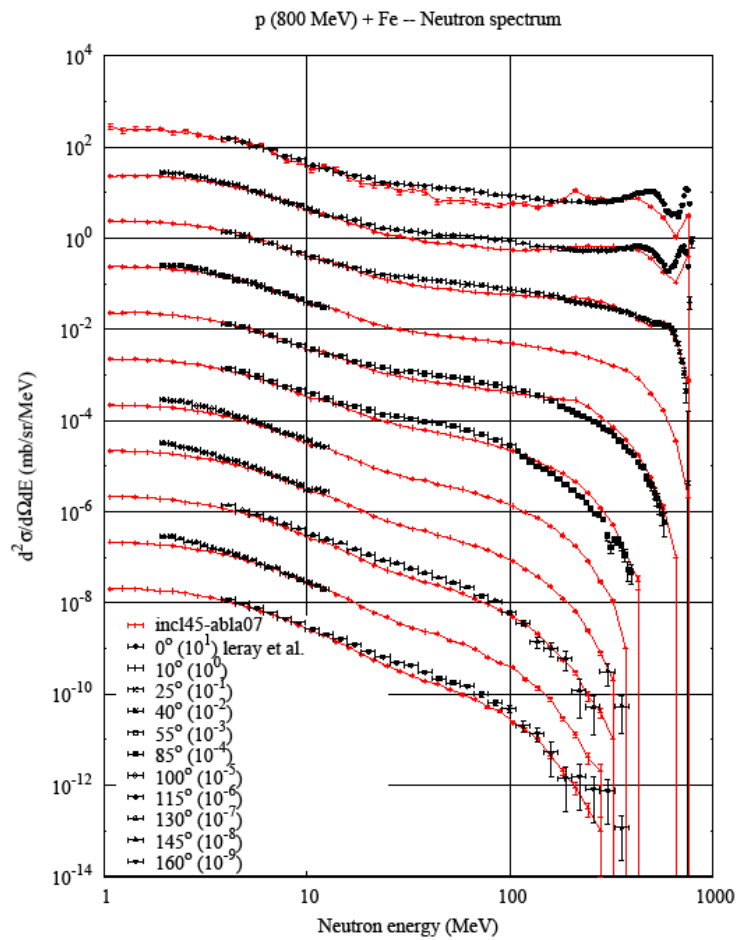
Detlef Filges

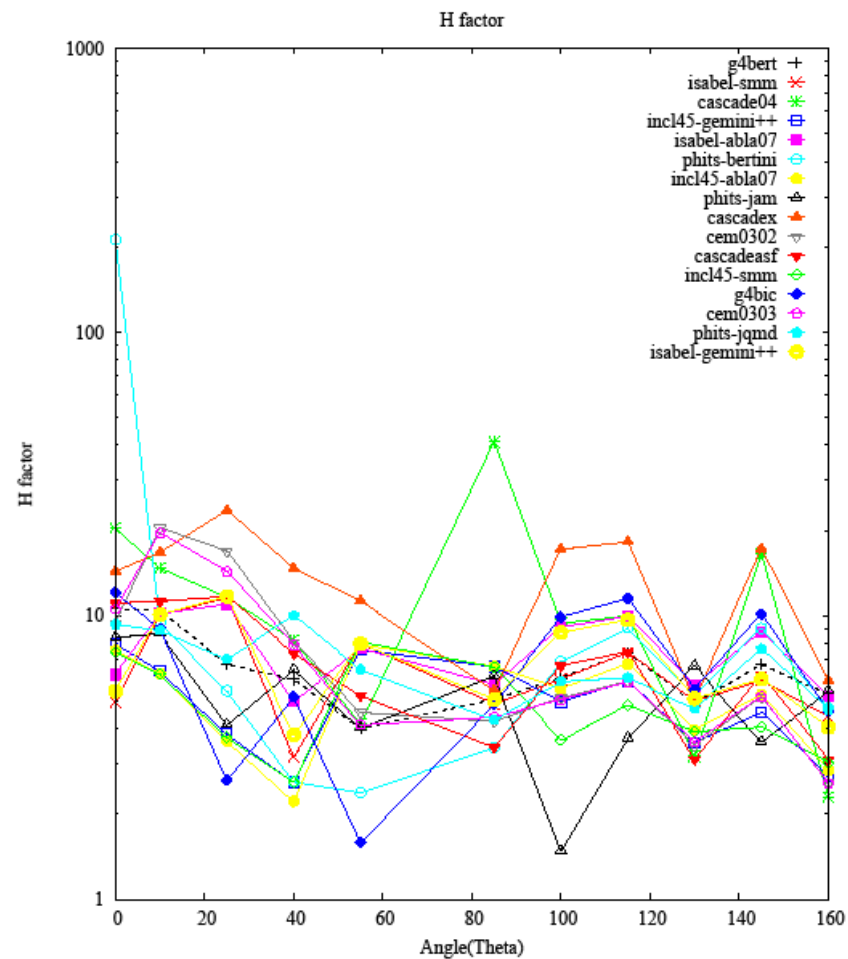
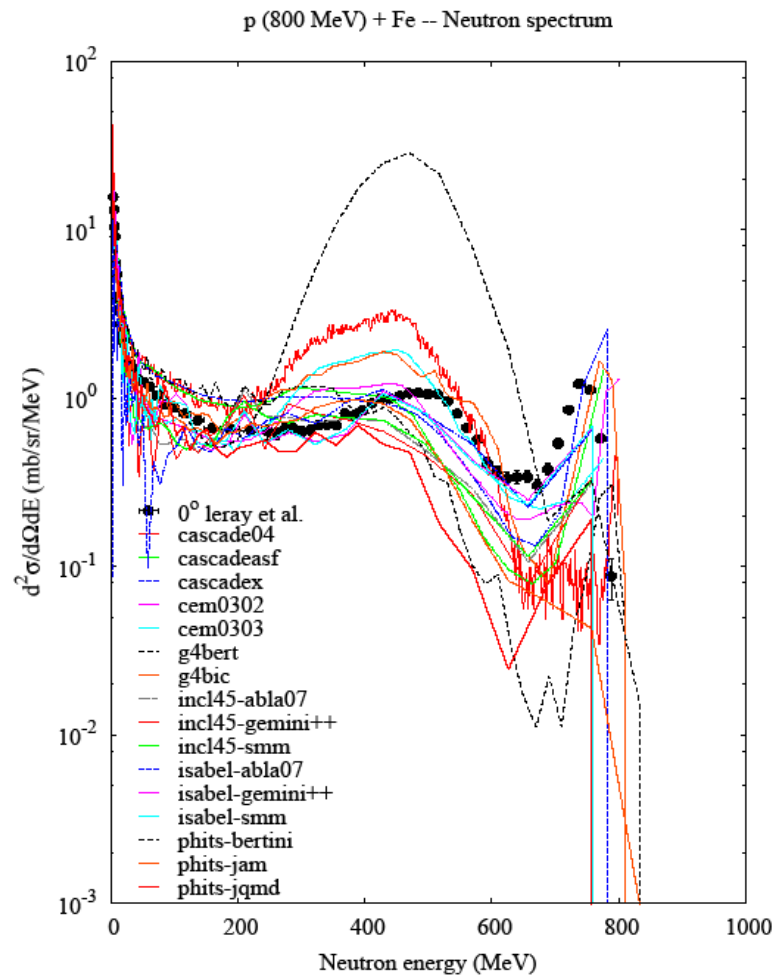
General Trends on

- **Neutrons**
- **LCP'S**
- **Residue Production**
- **Pions**
- **Residue Production**
- **Excitation functions**

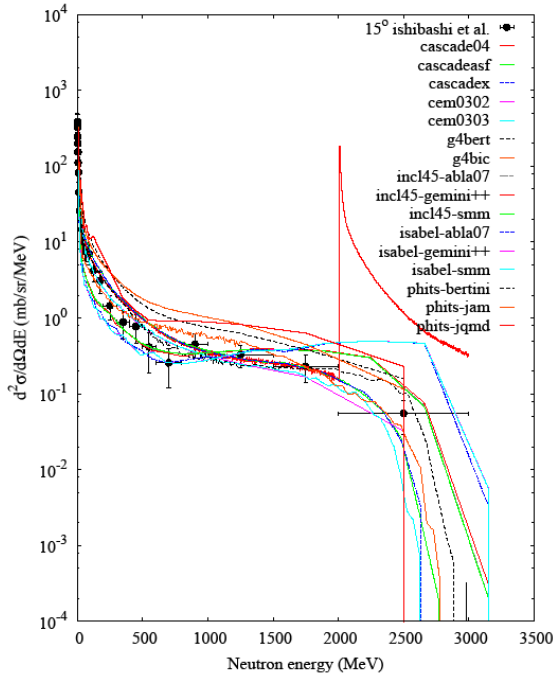




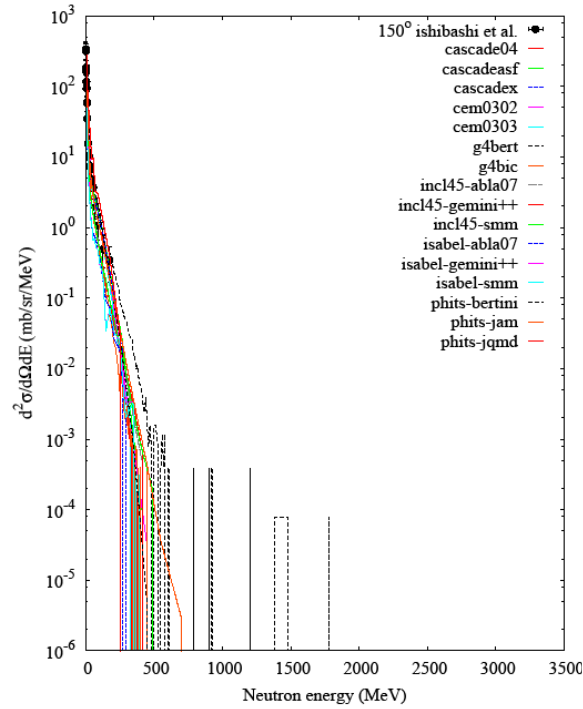




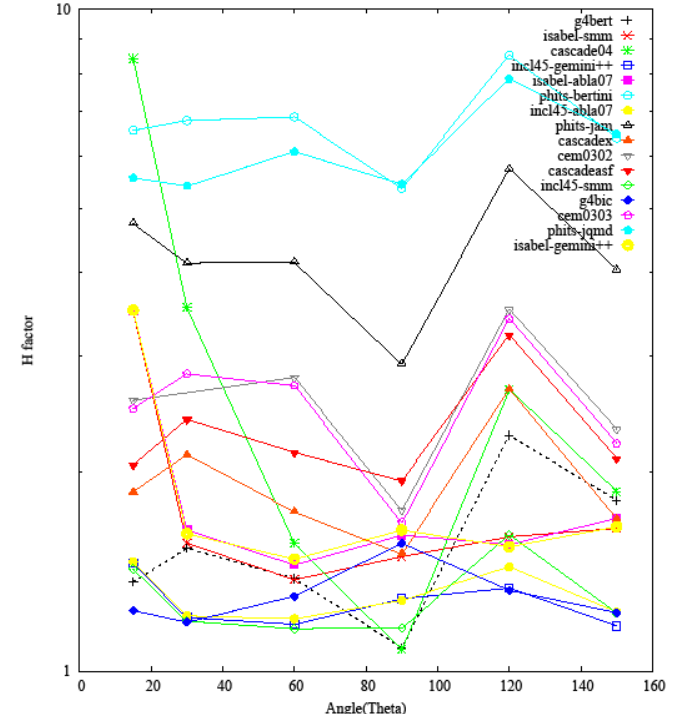
p (3000 MeV) + Pb -- Neutron spectrum



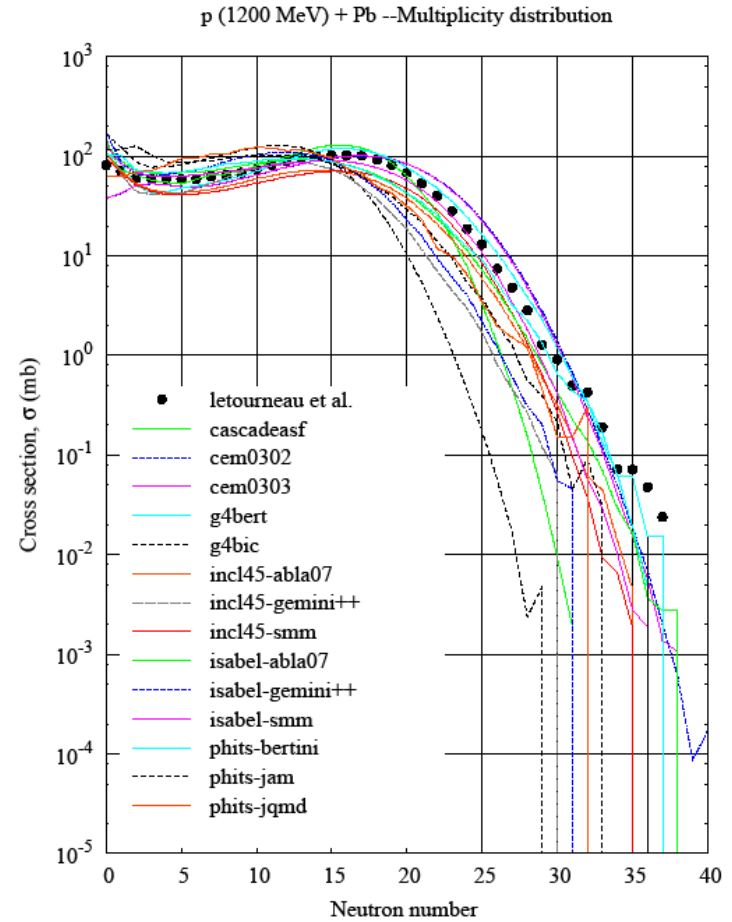
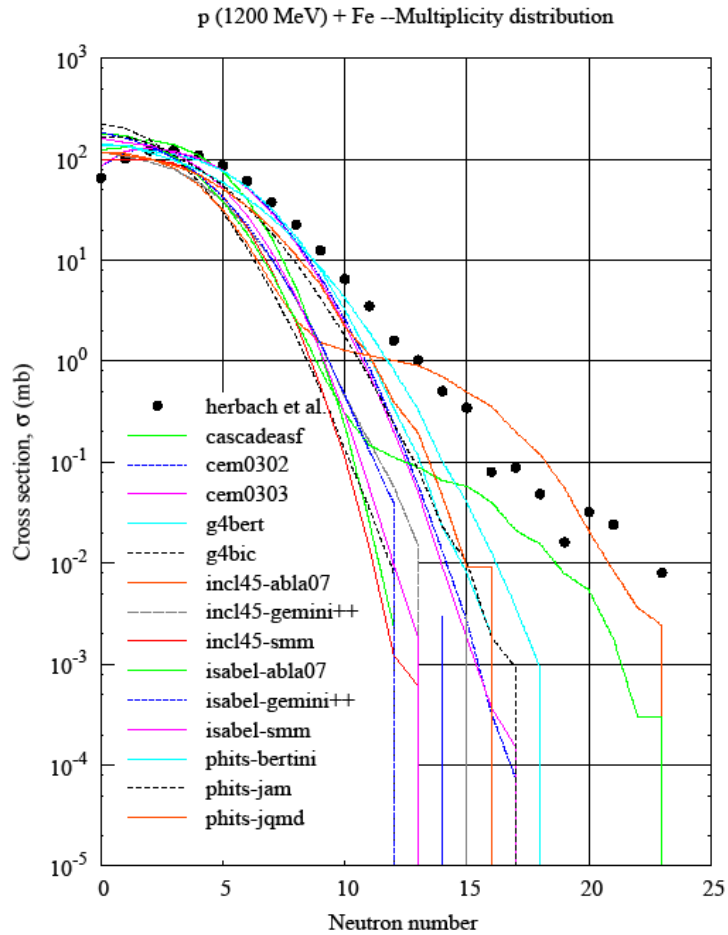
p (3000 MeV) + Pb -- Neutron spectrum



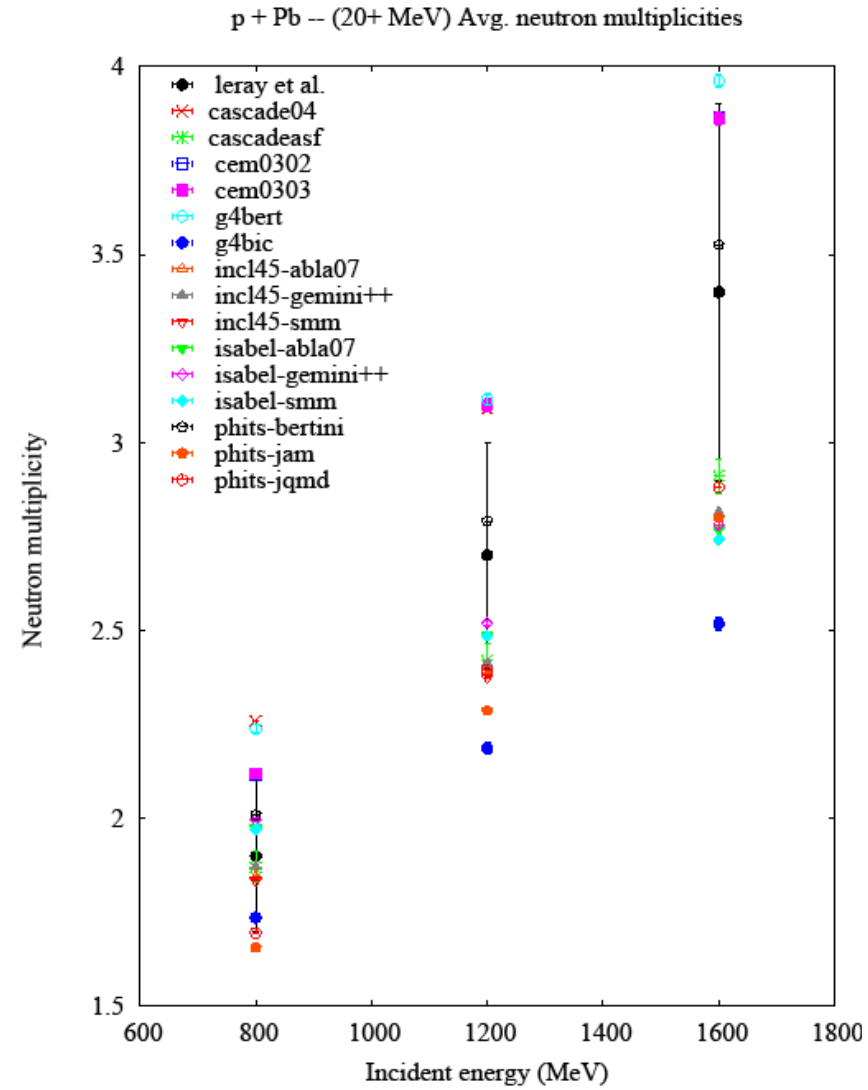
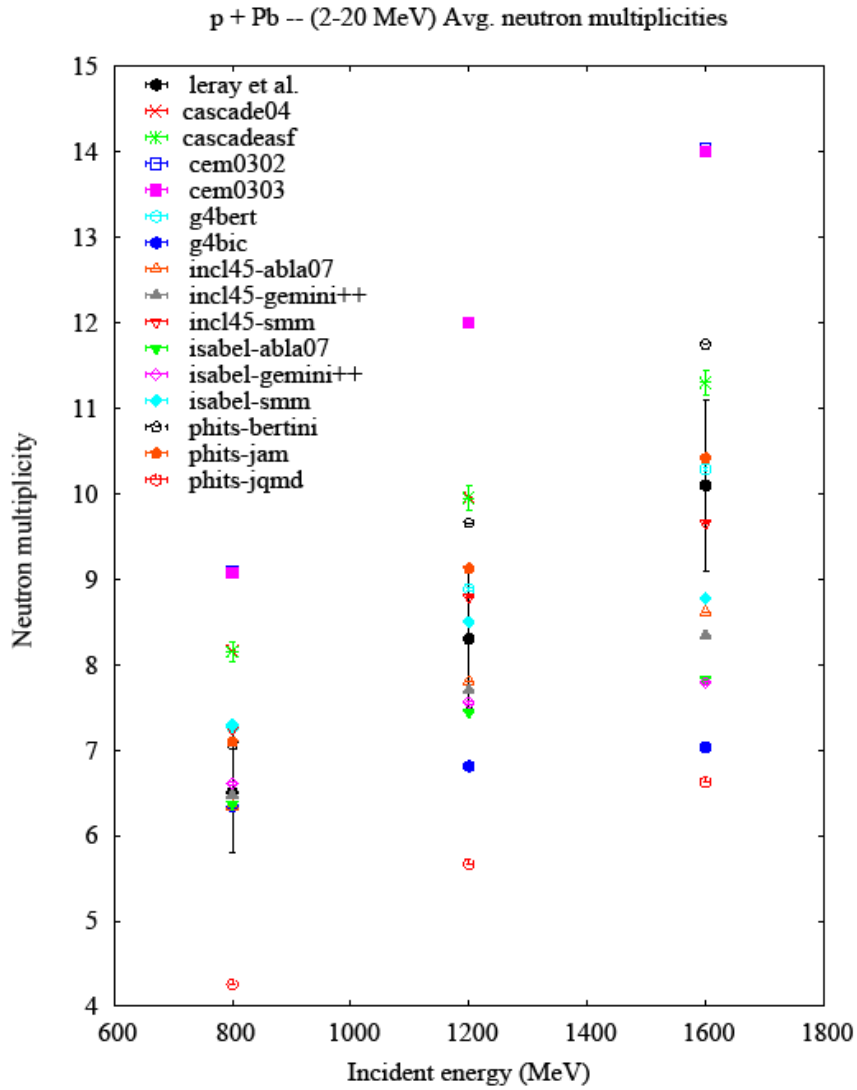
H factor



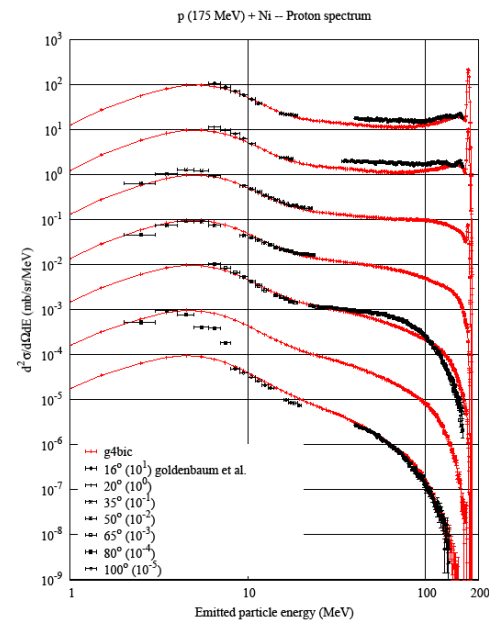
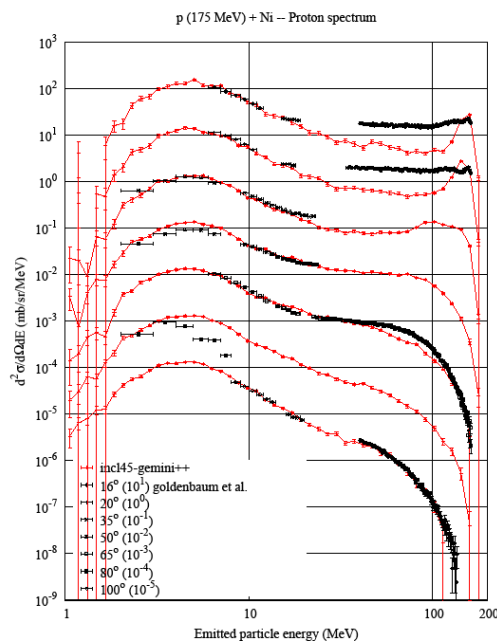
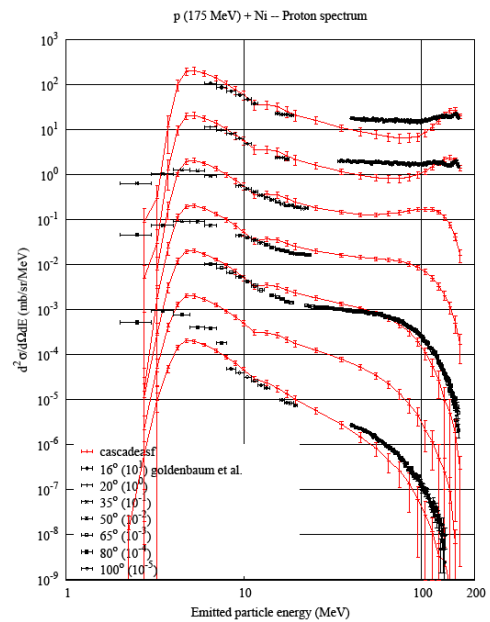
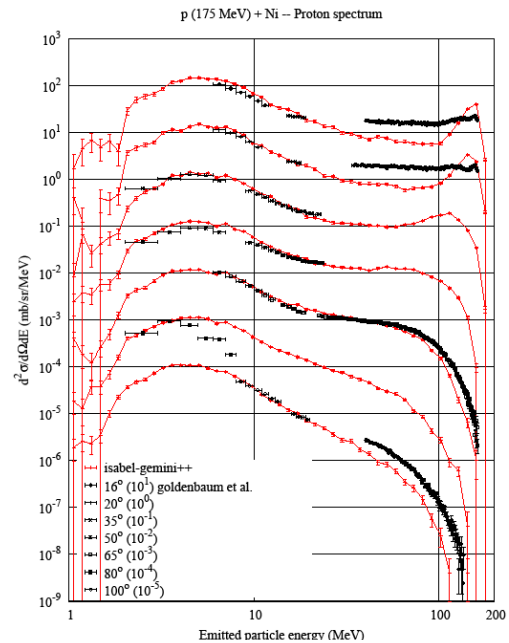
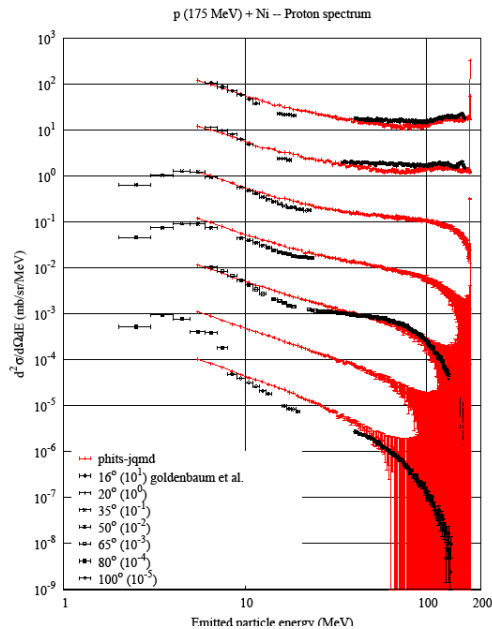
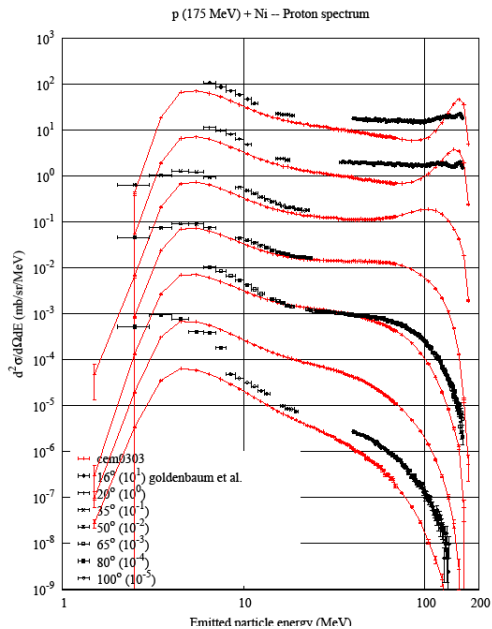
Multiplicity Distributions

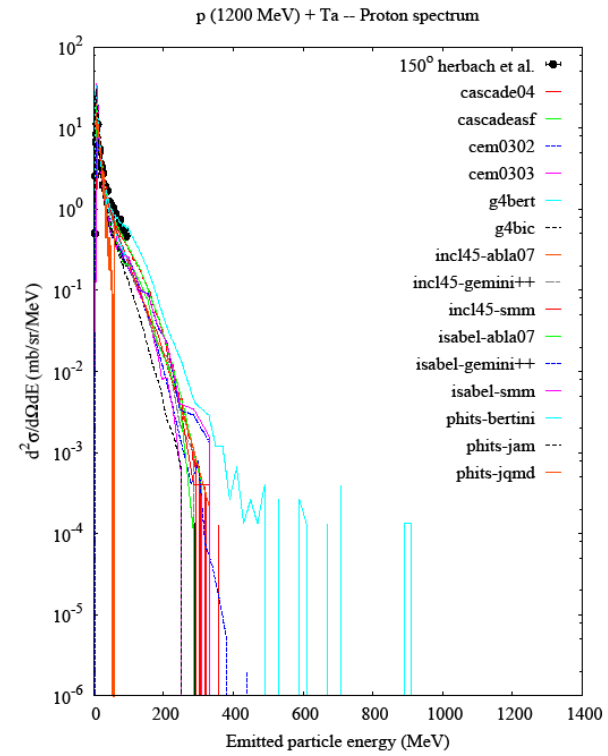
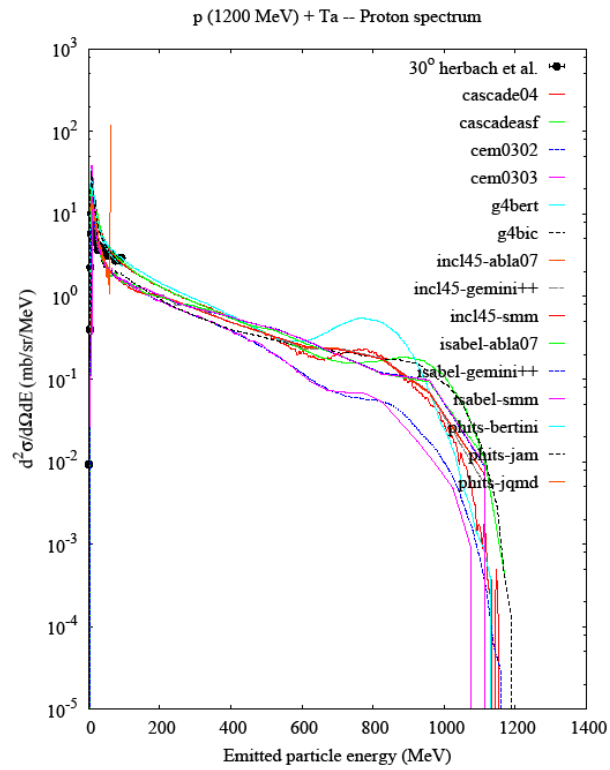
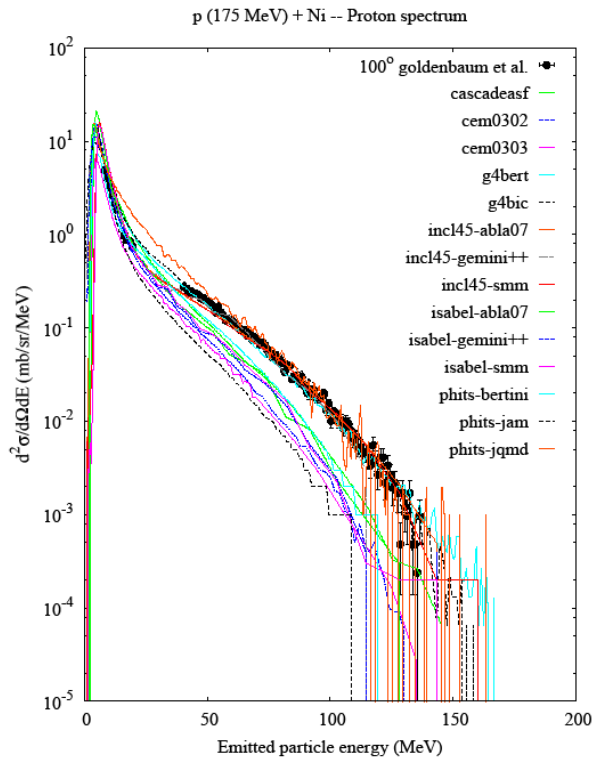


Average multiplicity

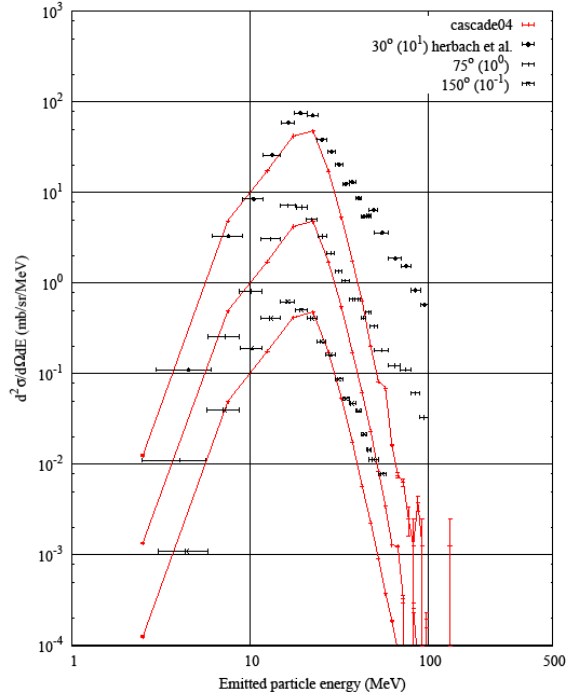


LCP's

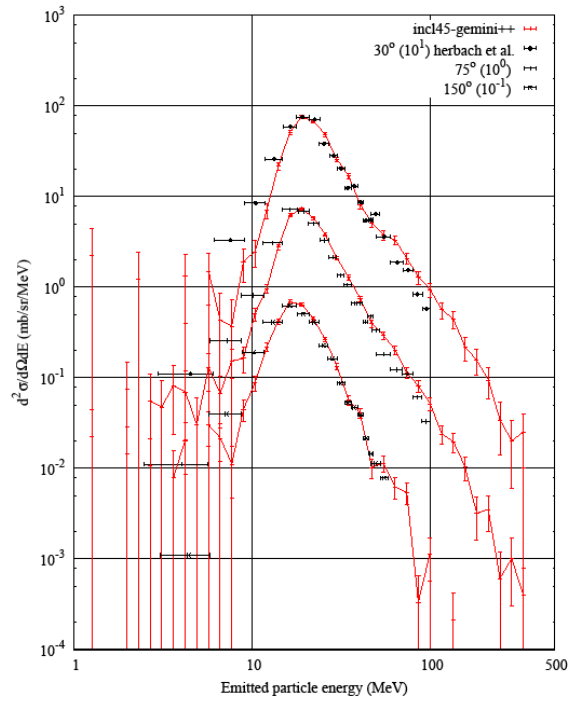




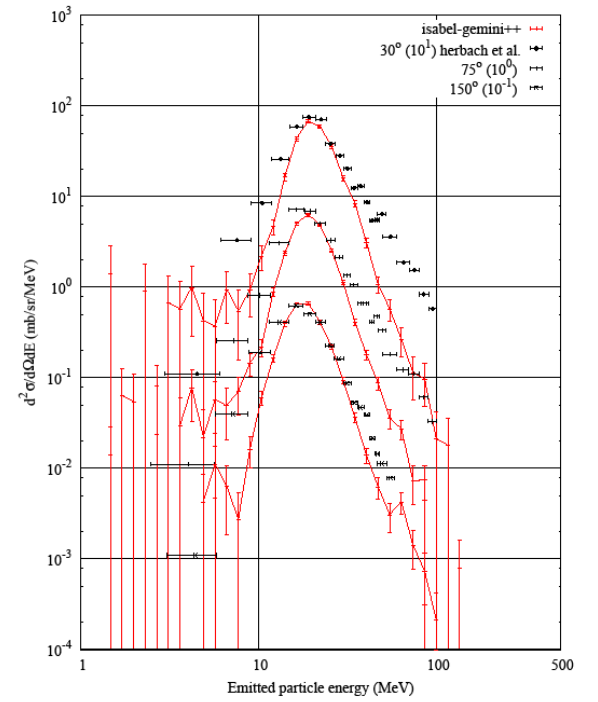
p (1200 MeV) + Ta -- Helium-4 spectrum

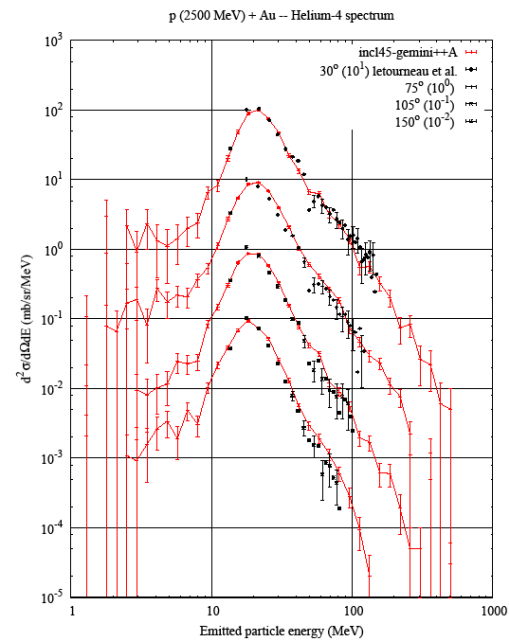
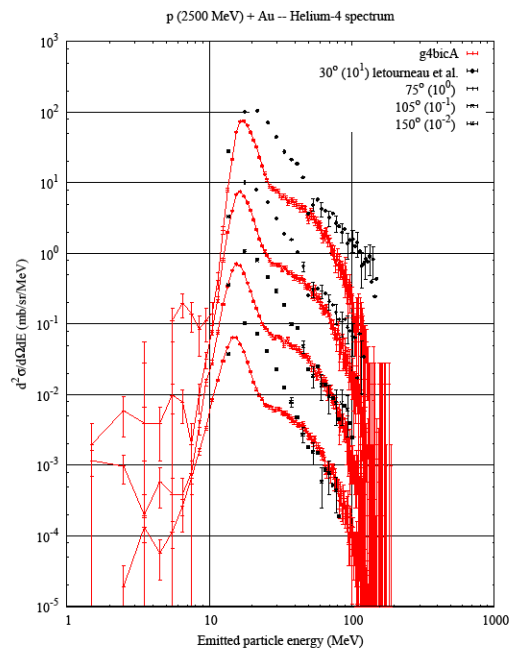
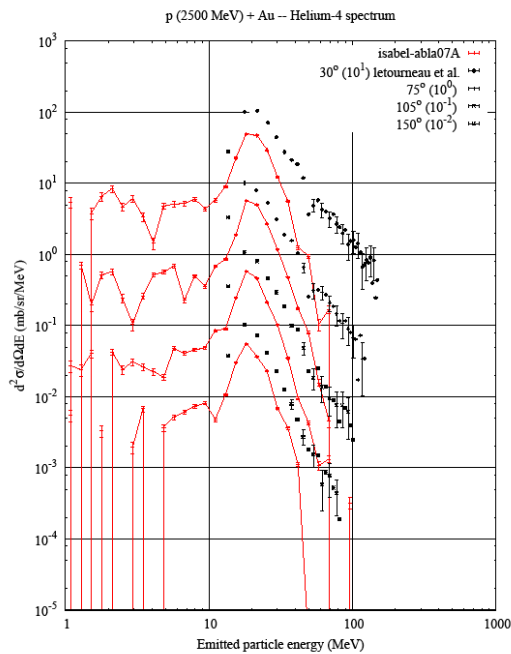
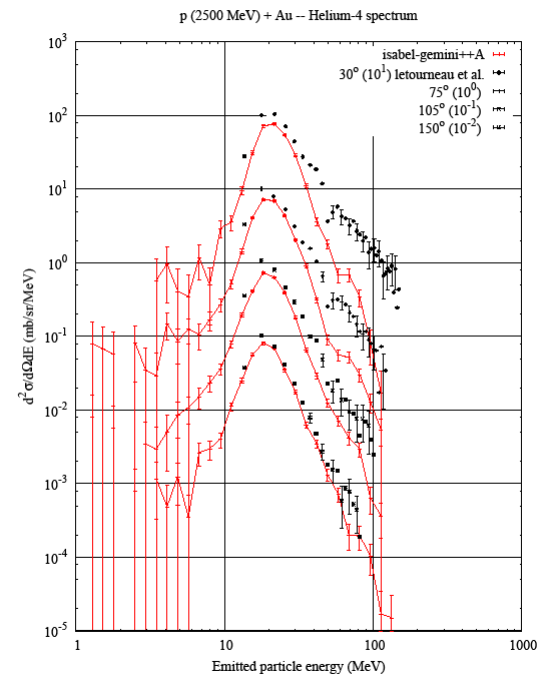
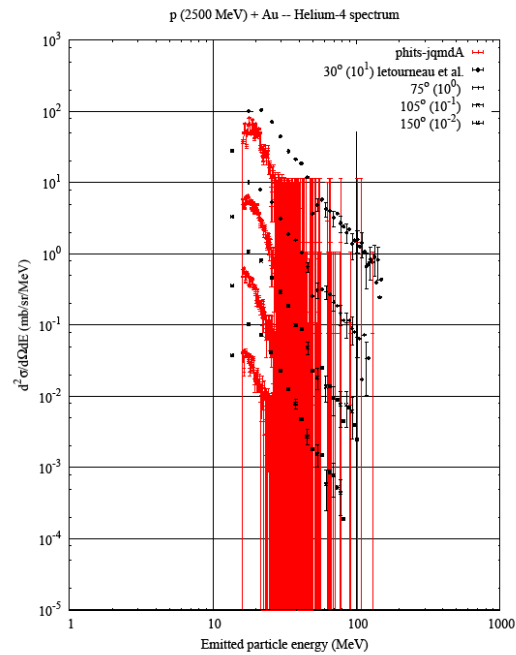
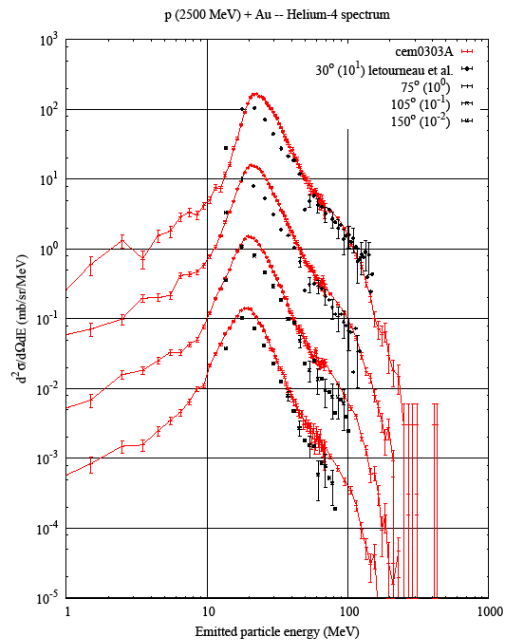


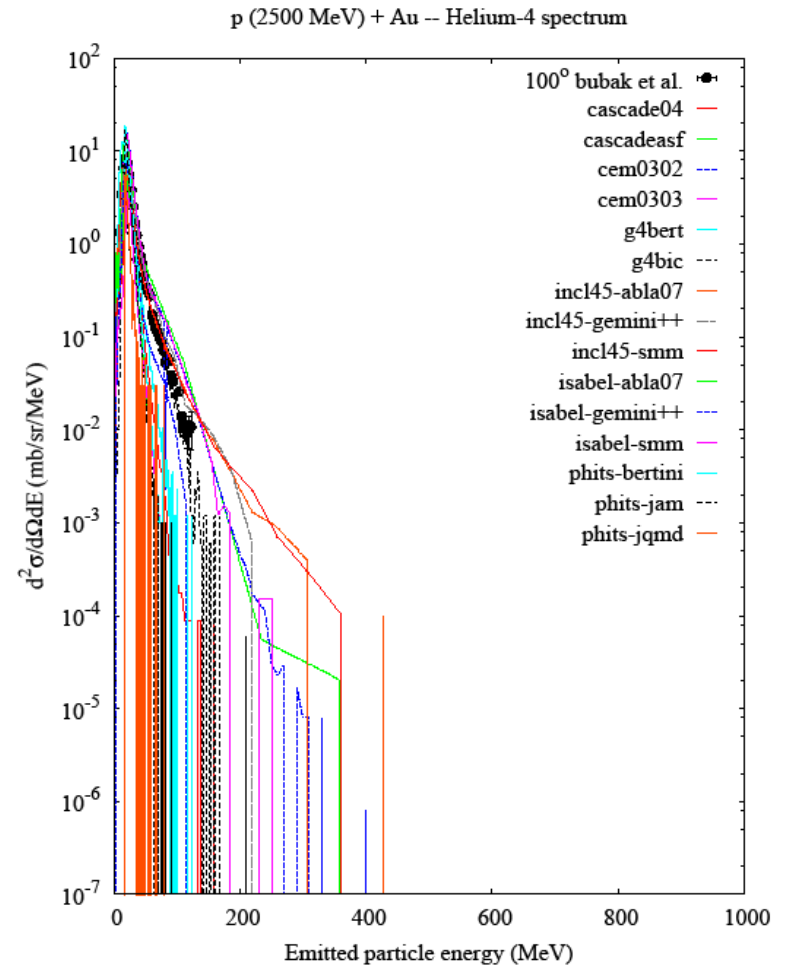
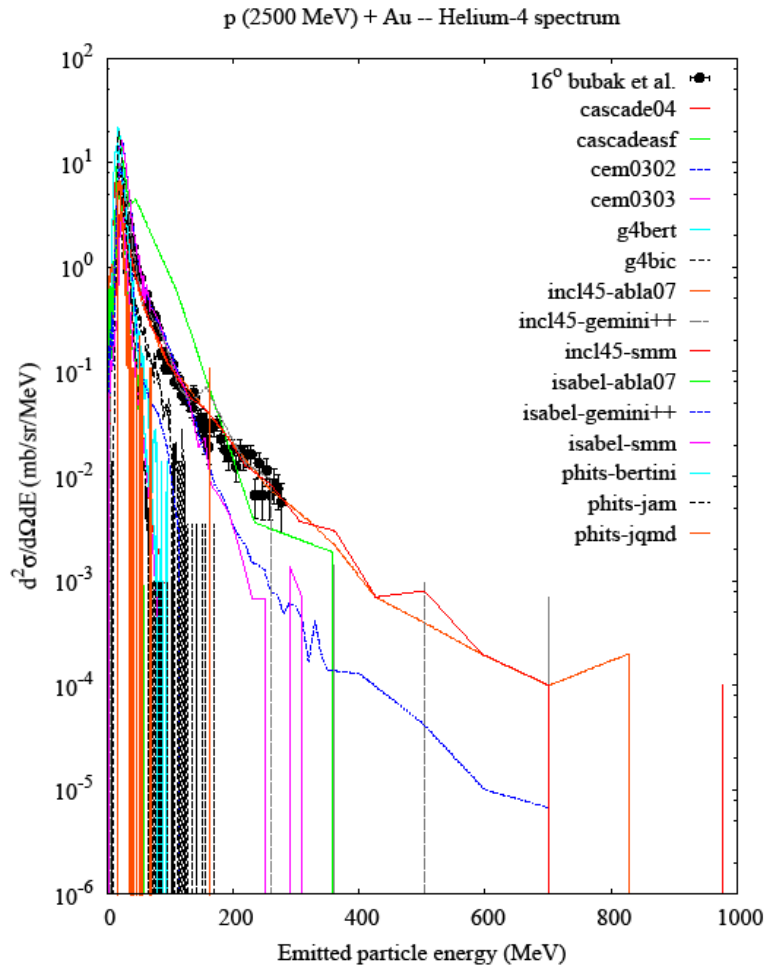
p (1200 MeV) + Ta -- Helium-4 spectrum



p (1200 MeV) + Ta -- Helium-4 spectrum

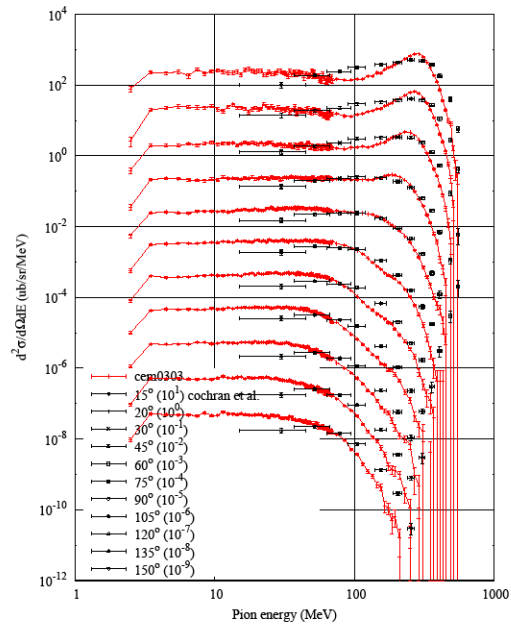




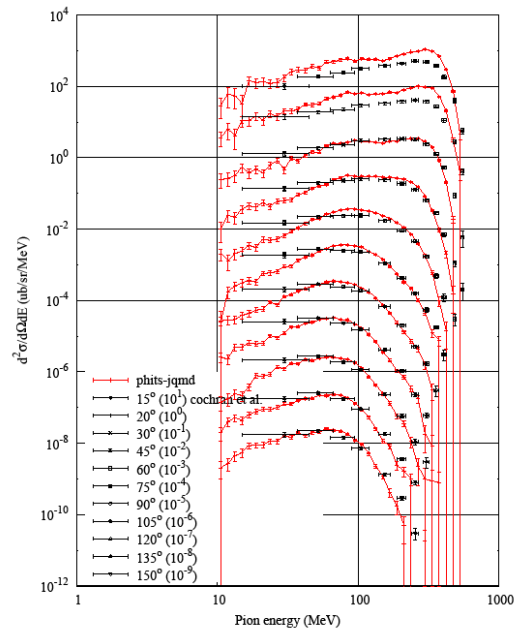


Double differential pion cross sections

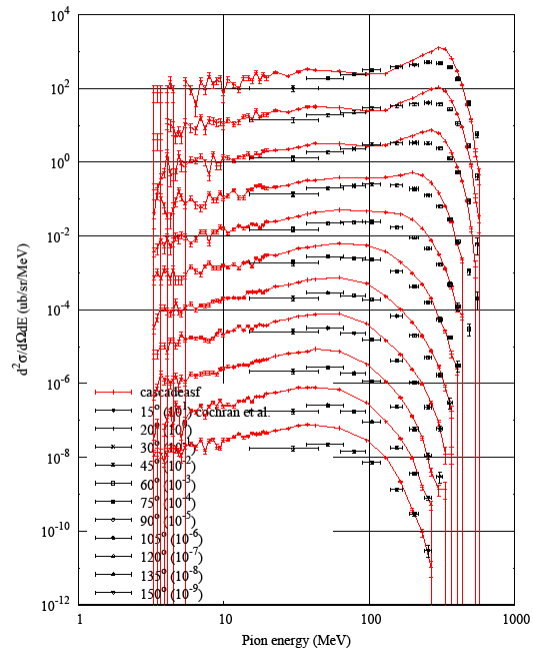
p (730 MeV) + Al -- Pion plus spectrum



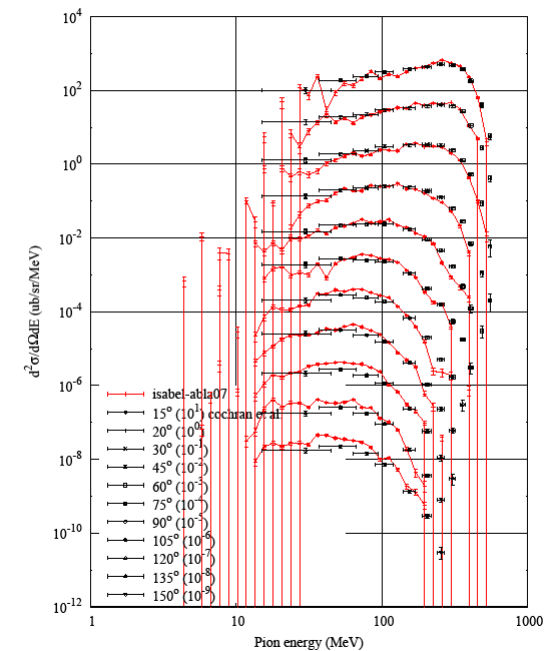
p (730 MeV) + Al -- Pion plus spectrum



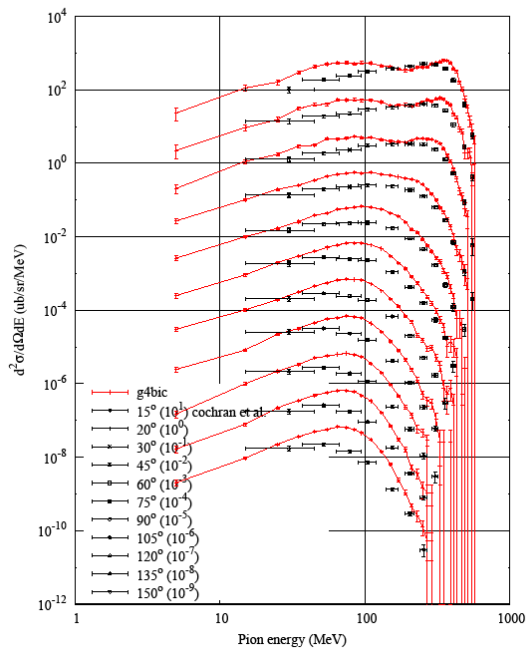
p (730 MeV) + Al -- Pion plus spectrum



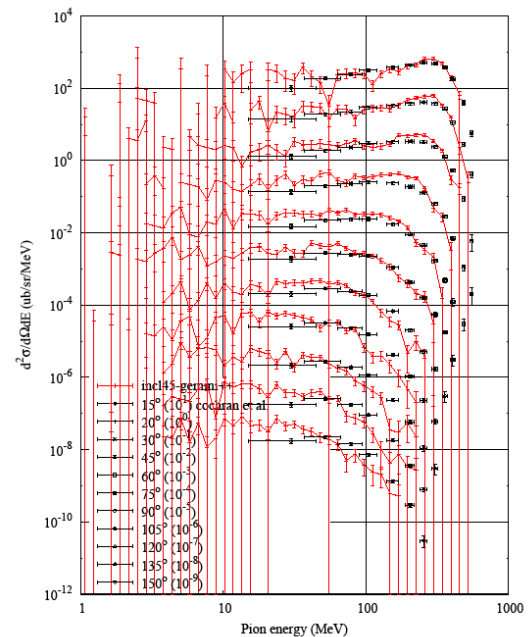
p (730 MeV) + Al -- Pion plus spectrum

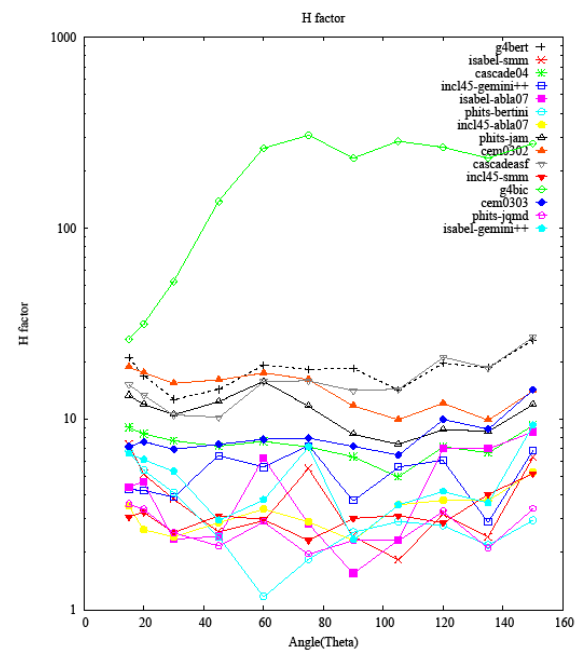
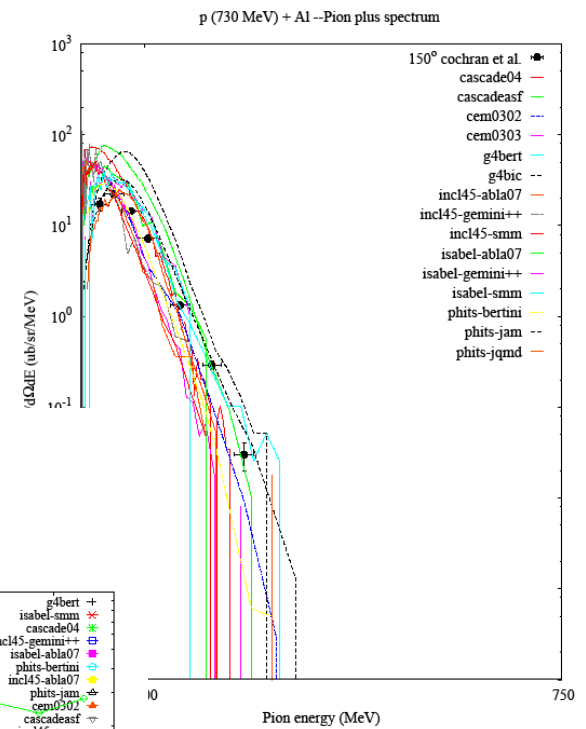
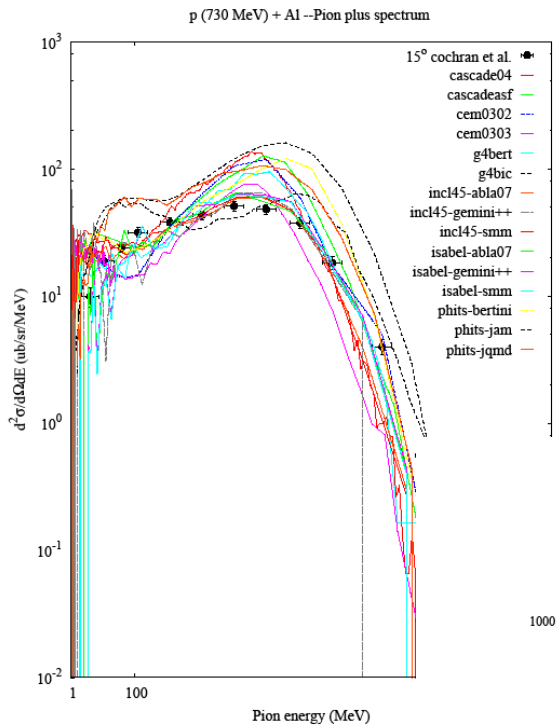


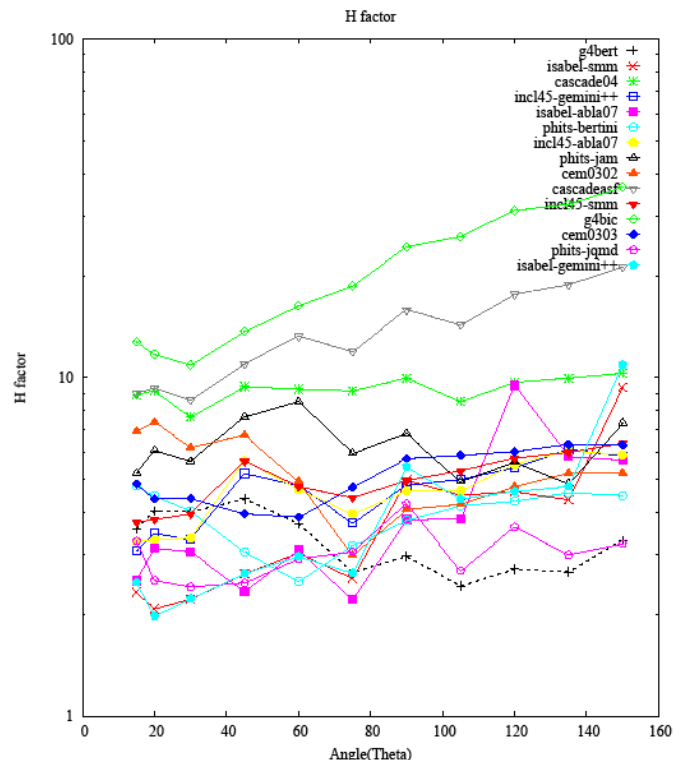
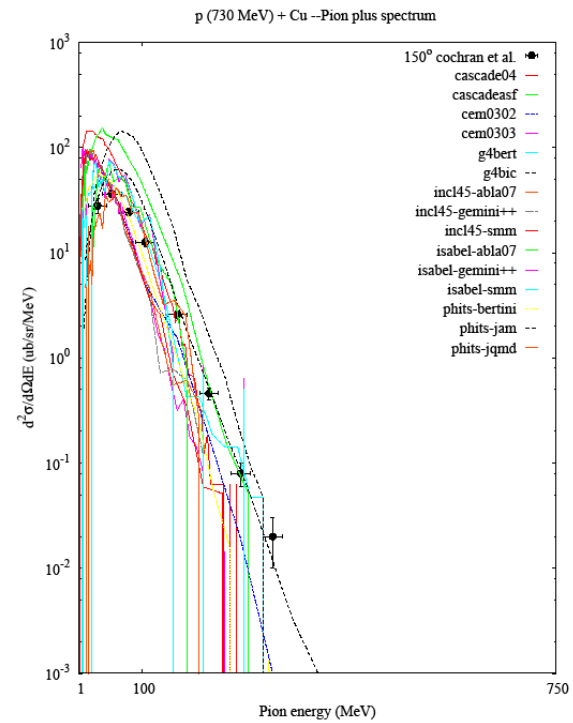
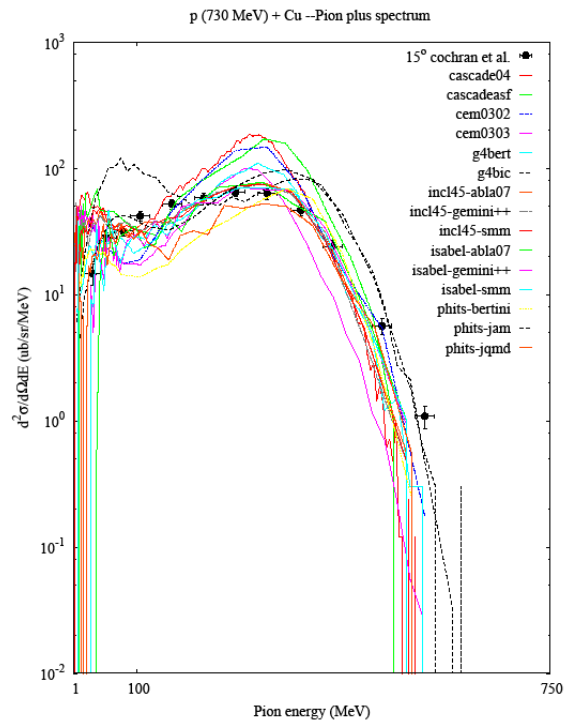
p (730 MeV) + Al -- Pion plus spectrum

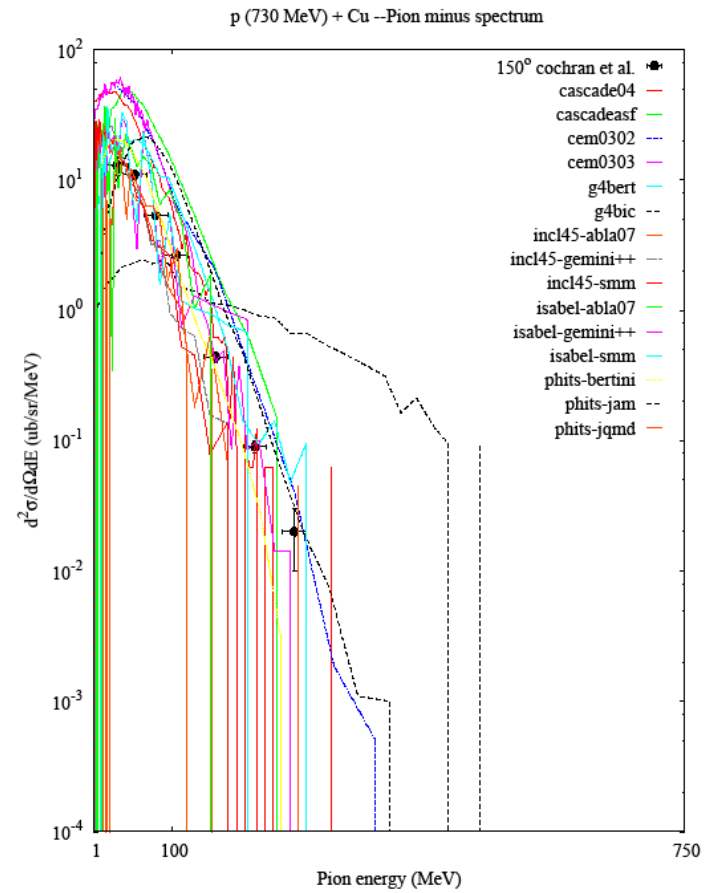
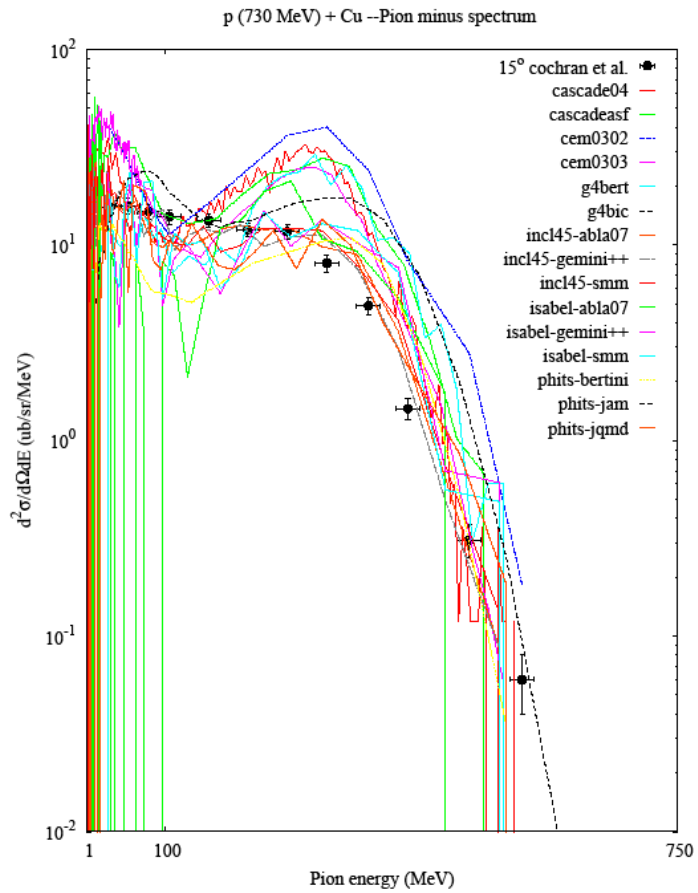


p (730 MeV) + Al -- Pion plus spectrum





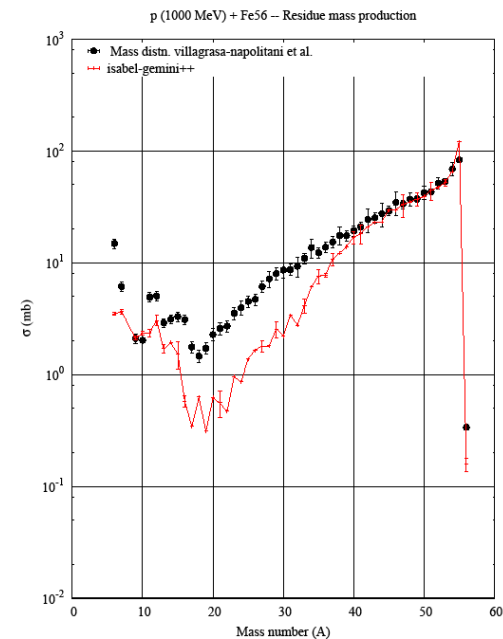
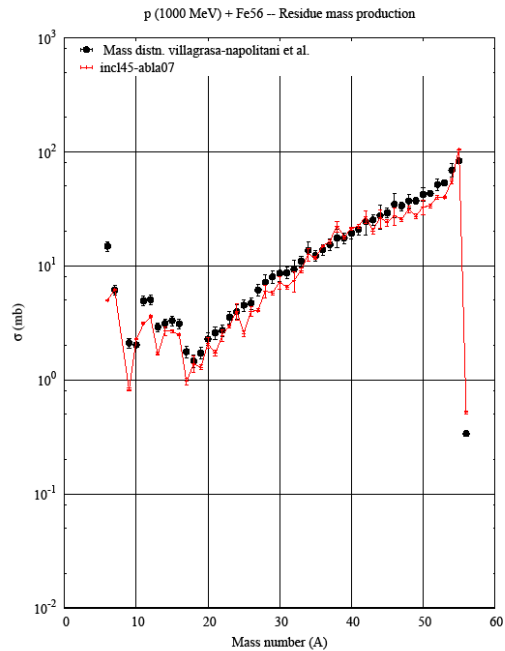
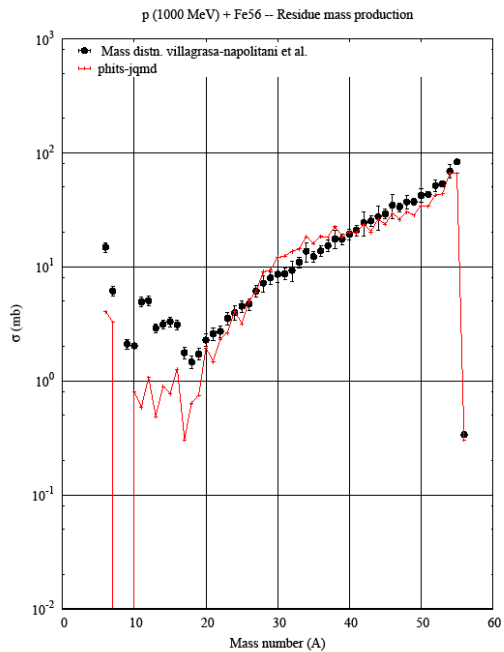
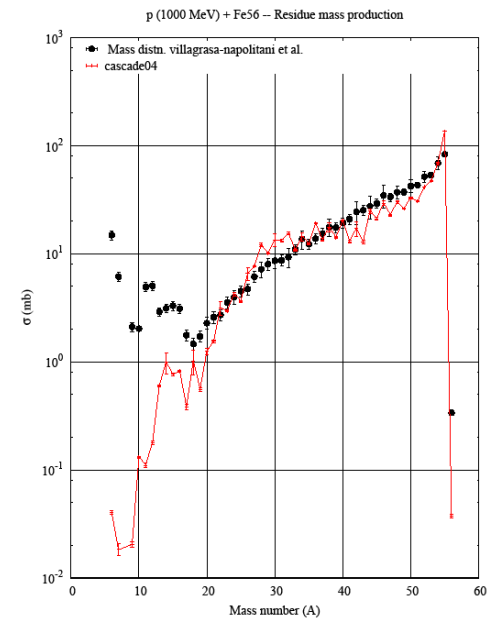
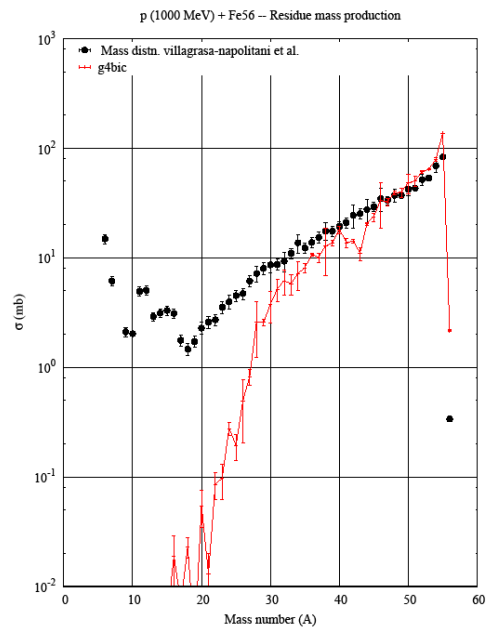
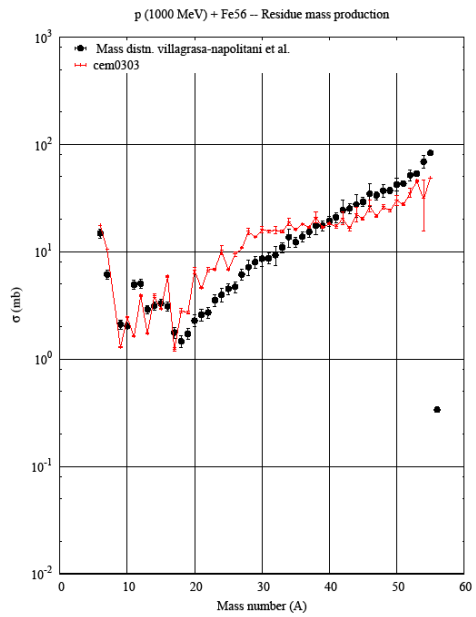


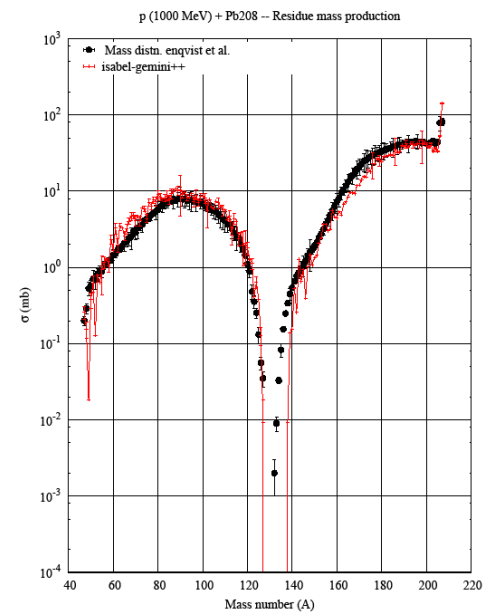
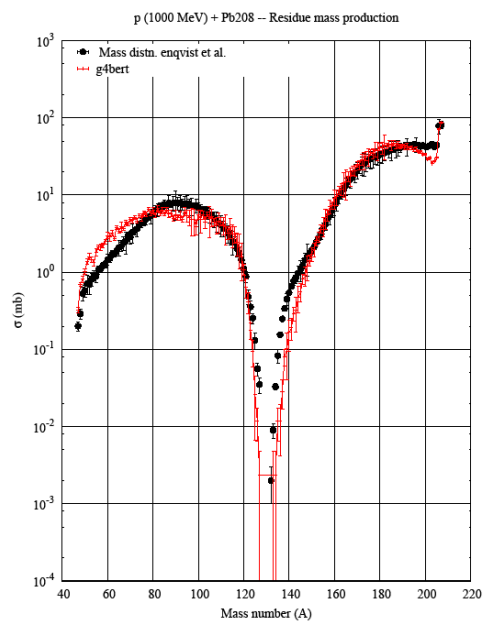
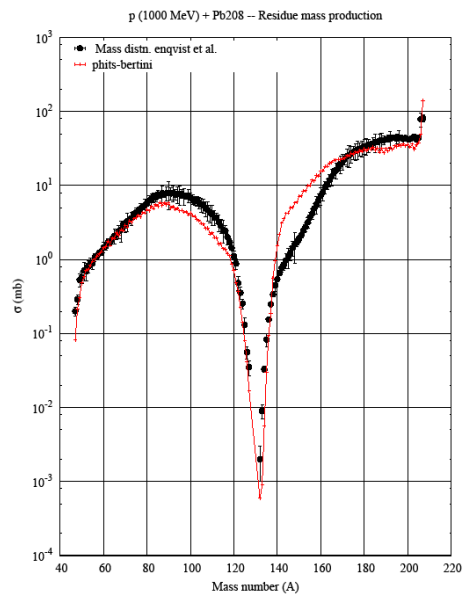
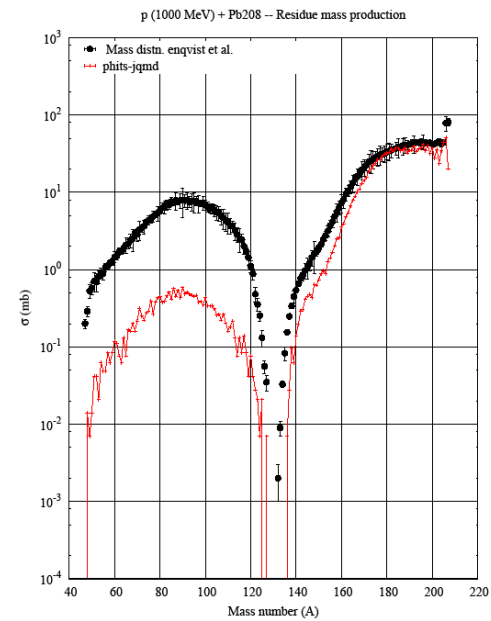
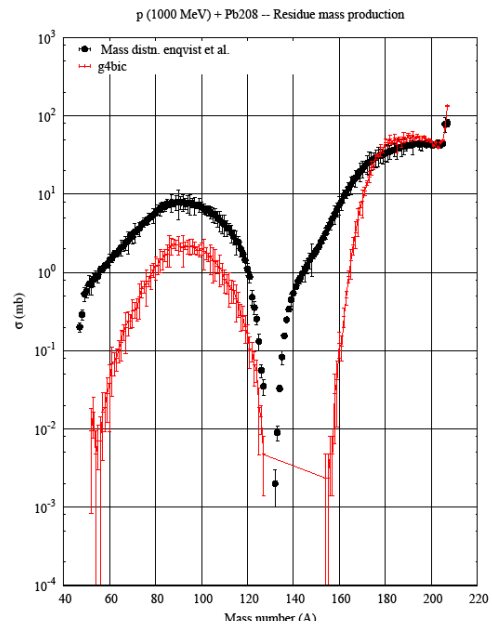
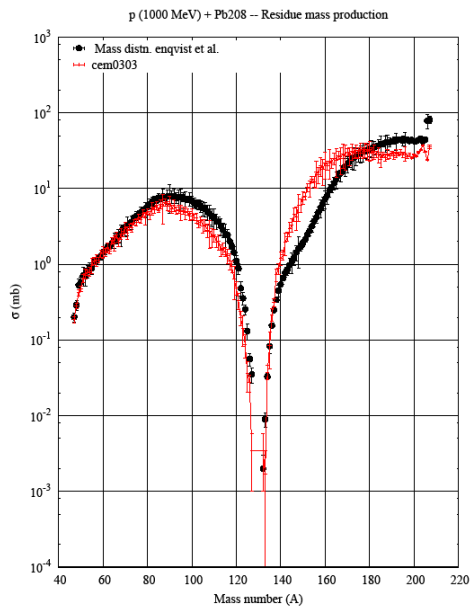


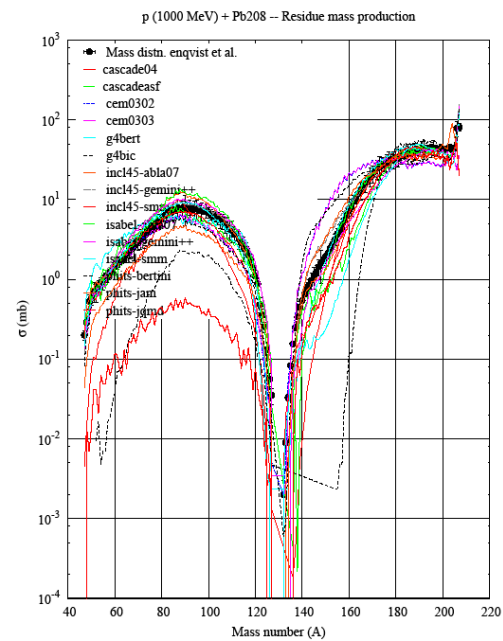
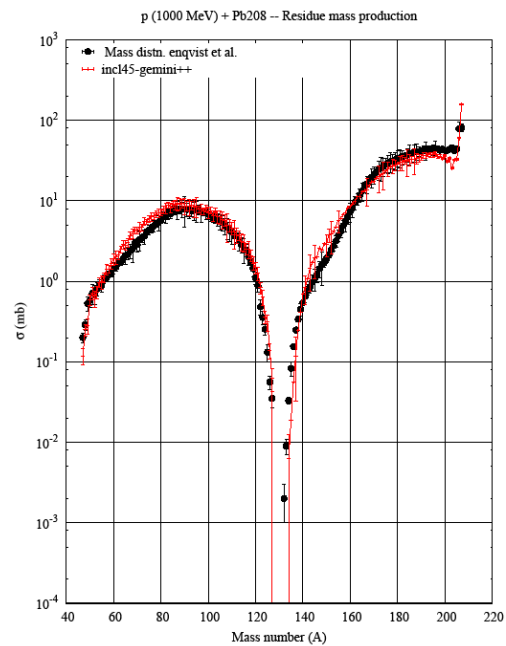
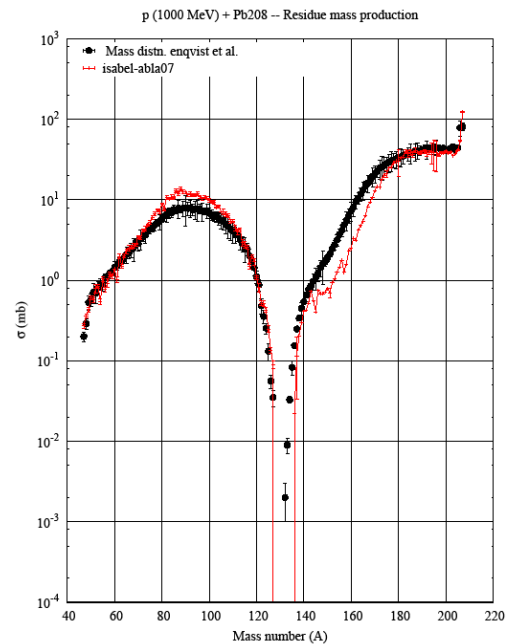
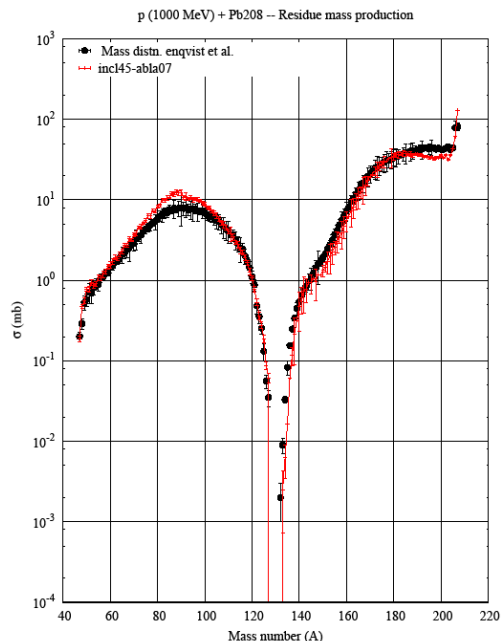
Residue Production

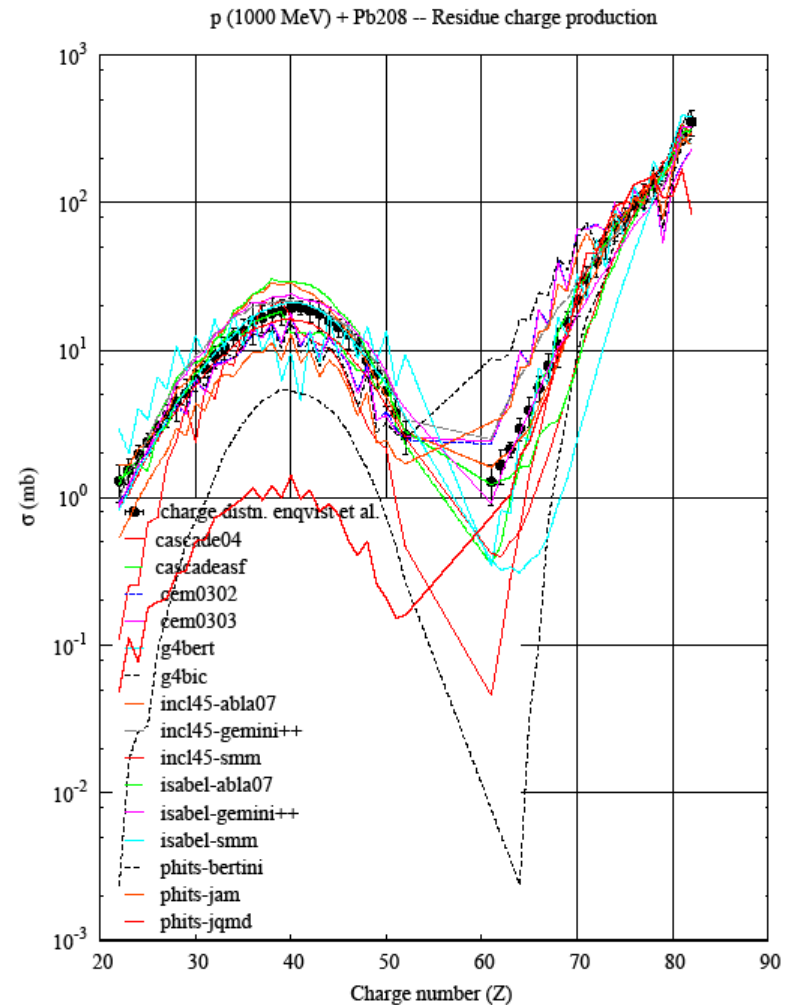
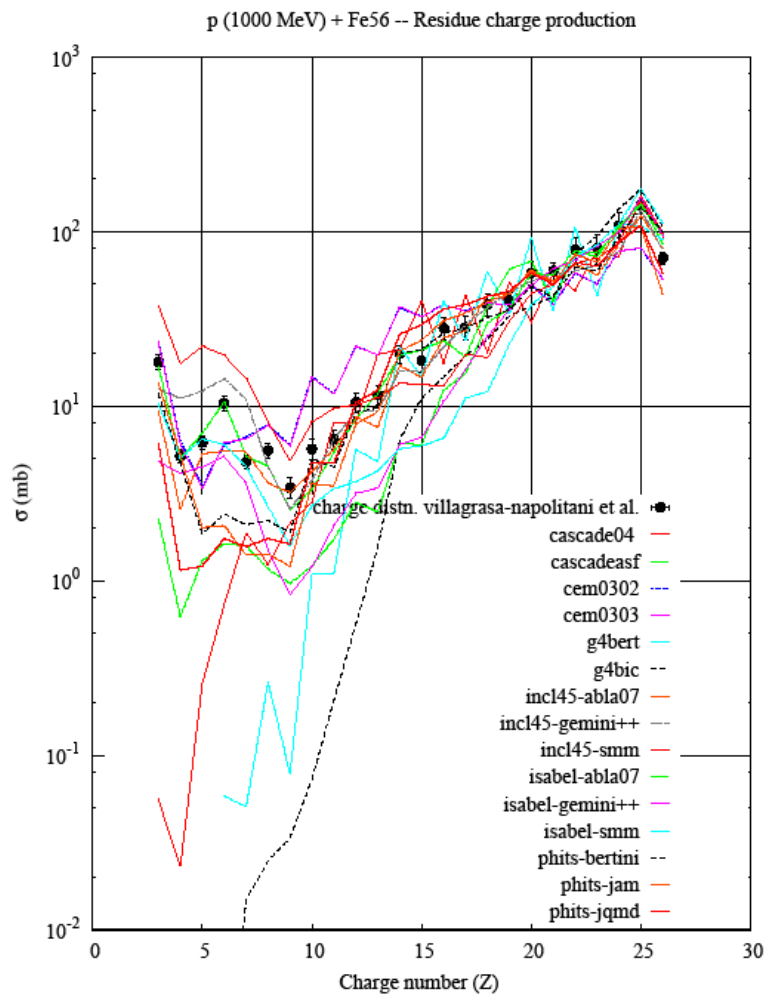
(Reaction with inverse kinematics)

Residue mass / charge production





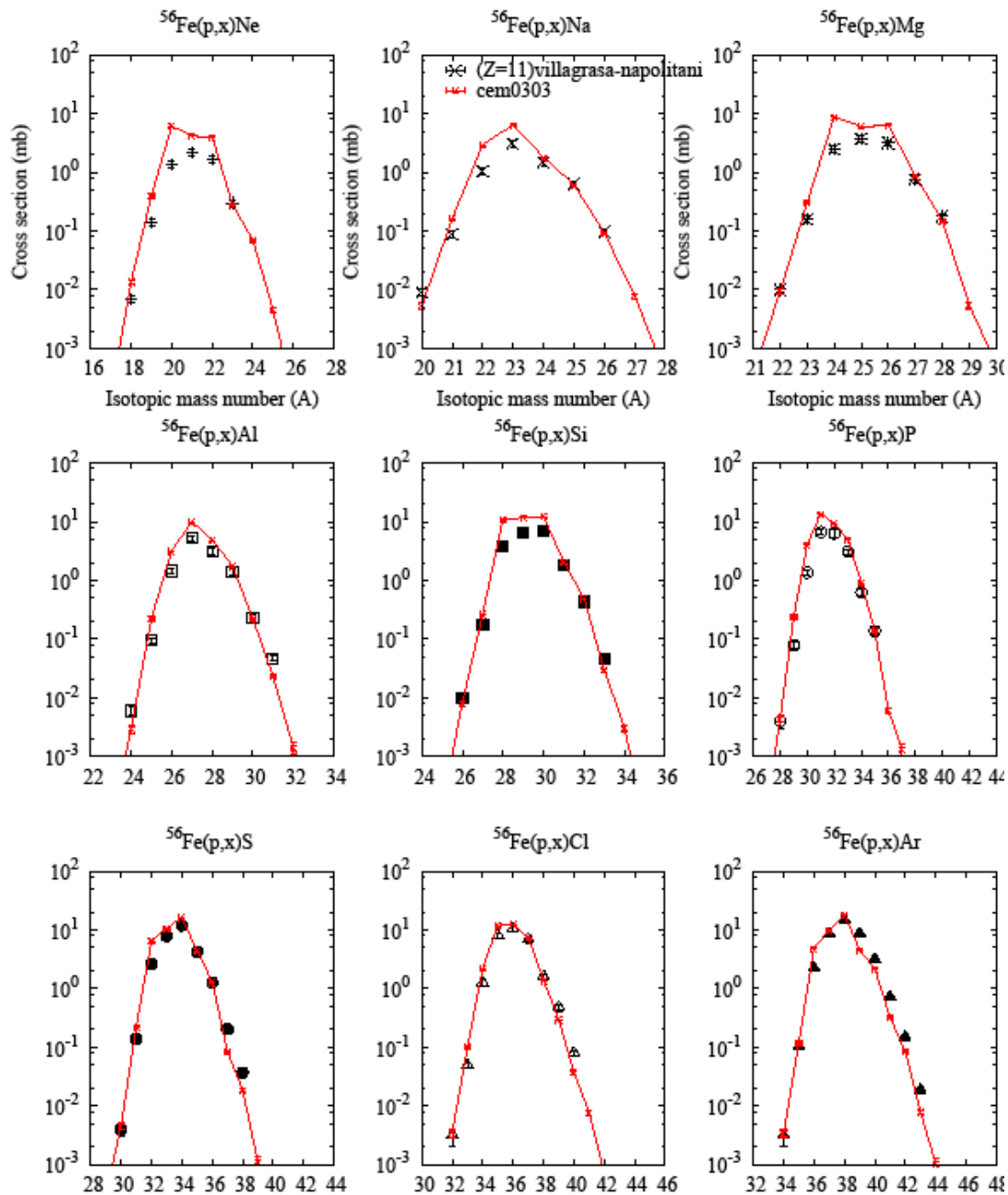


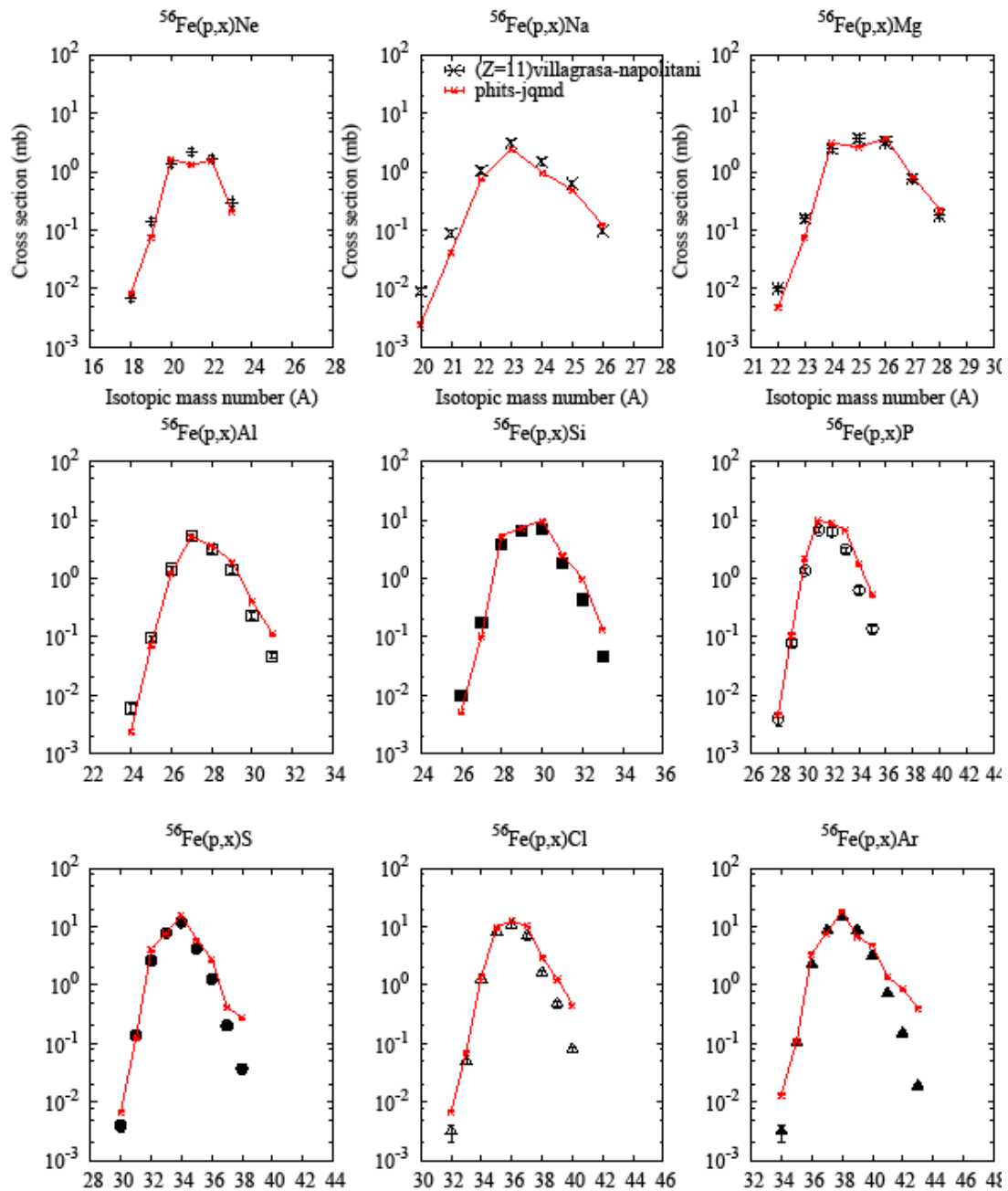


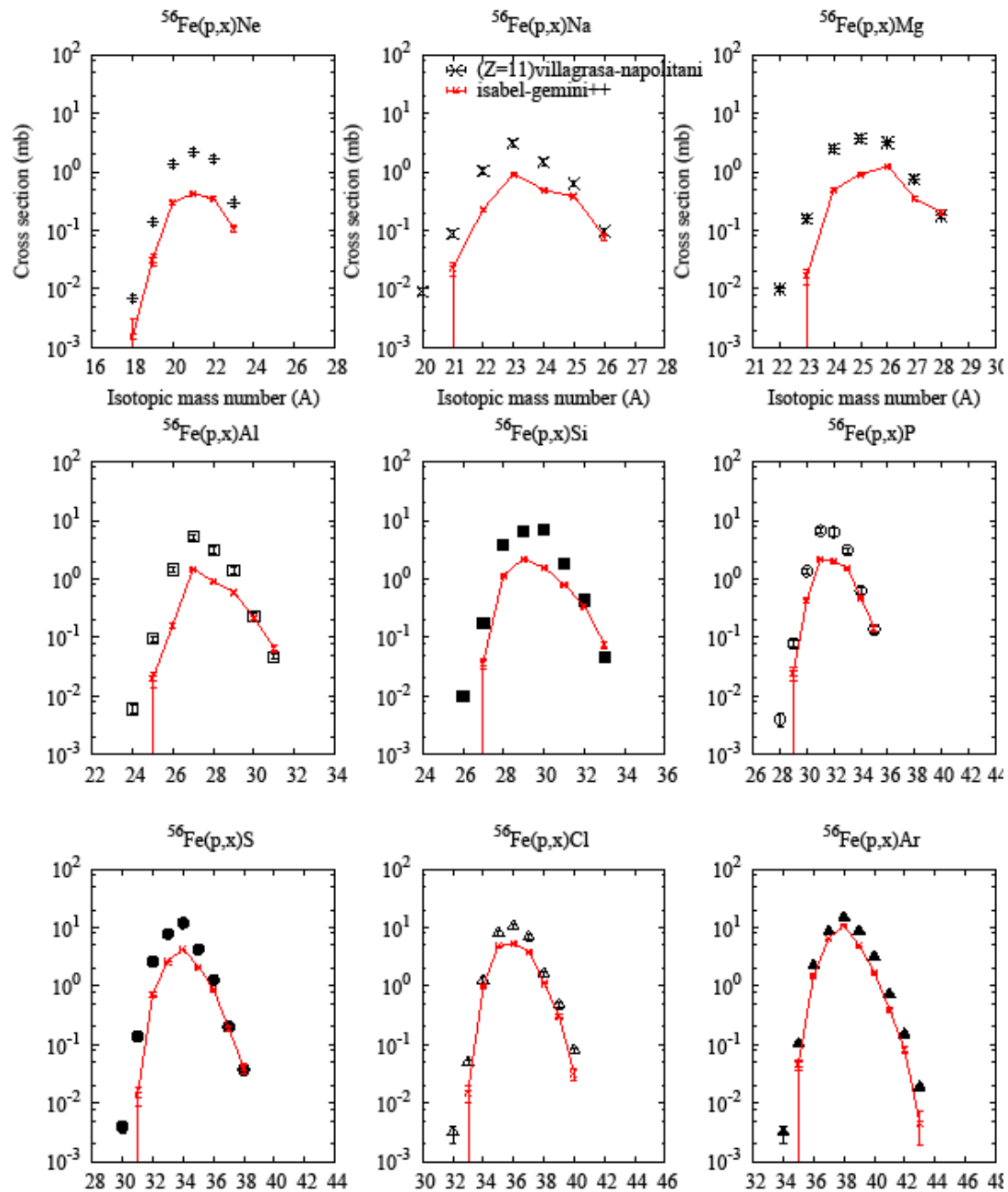
Residue Production

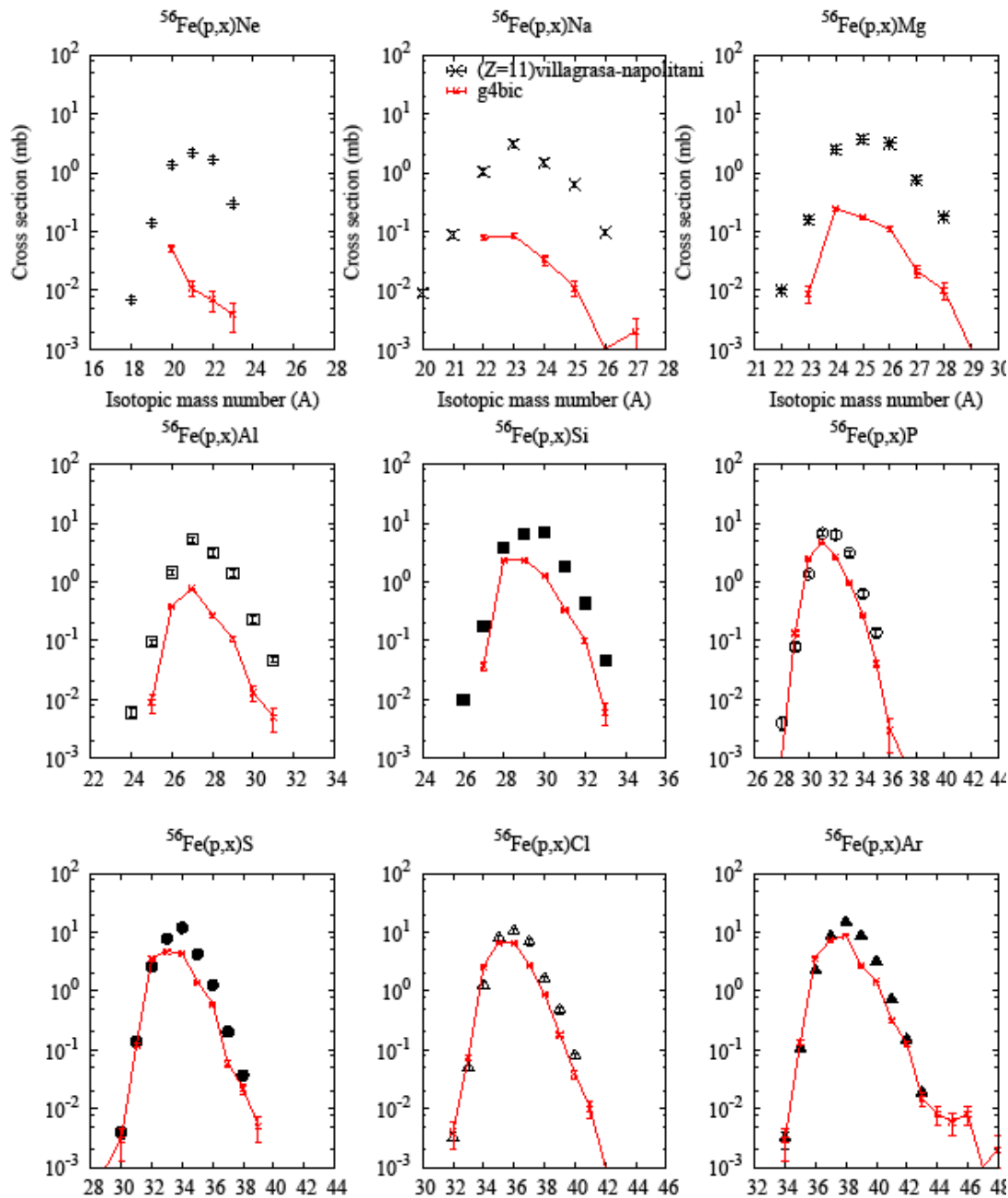
(Reaction with inverse kinematics)

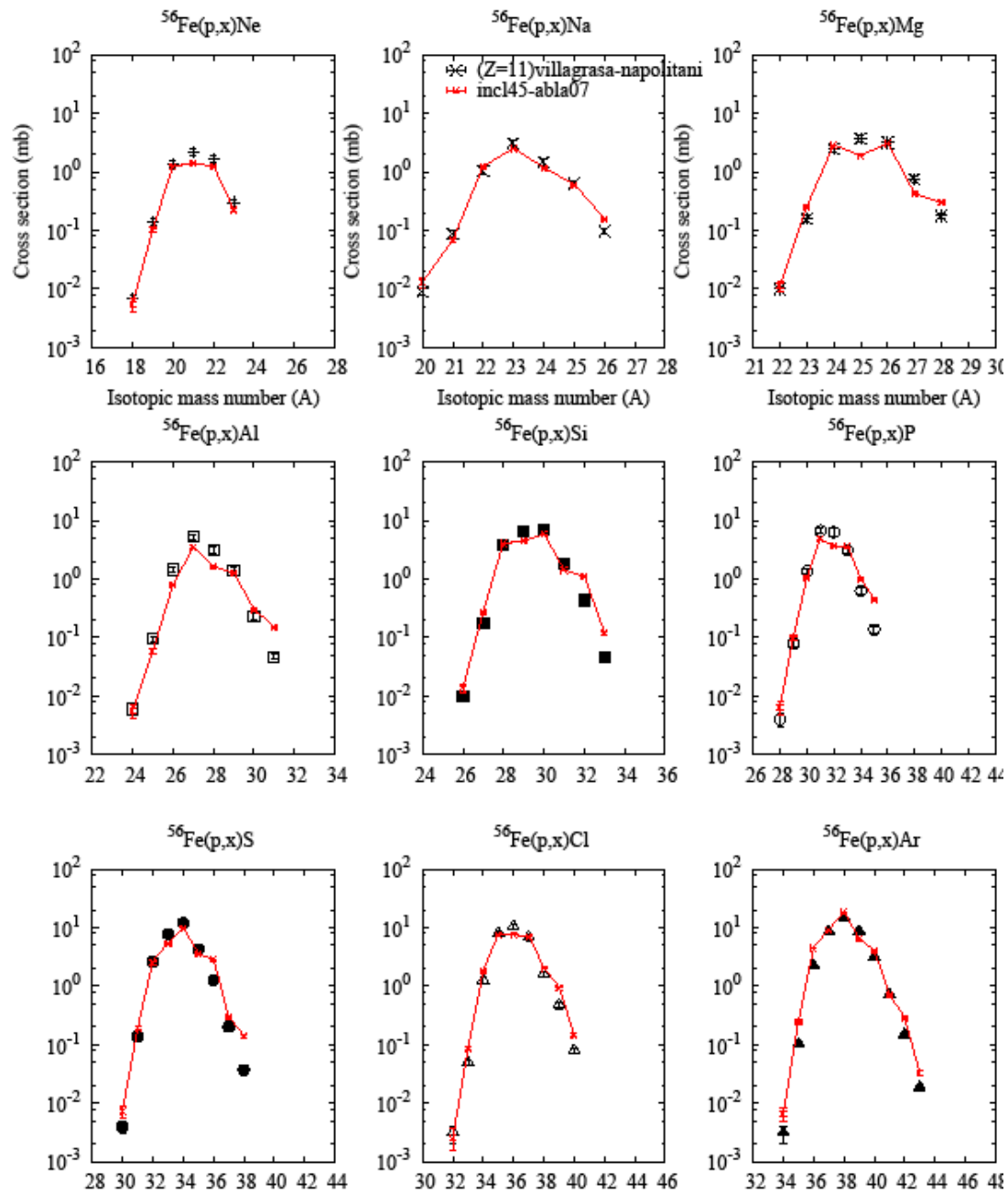
**Isotopic distribution (residue mass
production w.r.t. isotope number)**

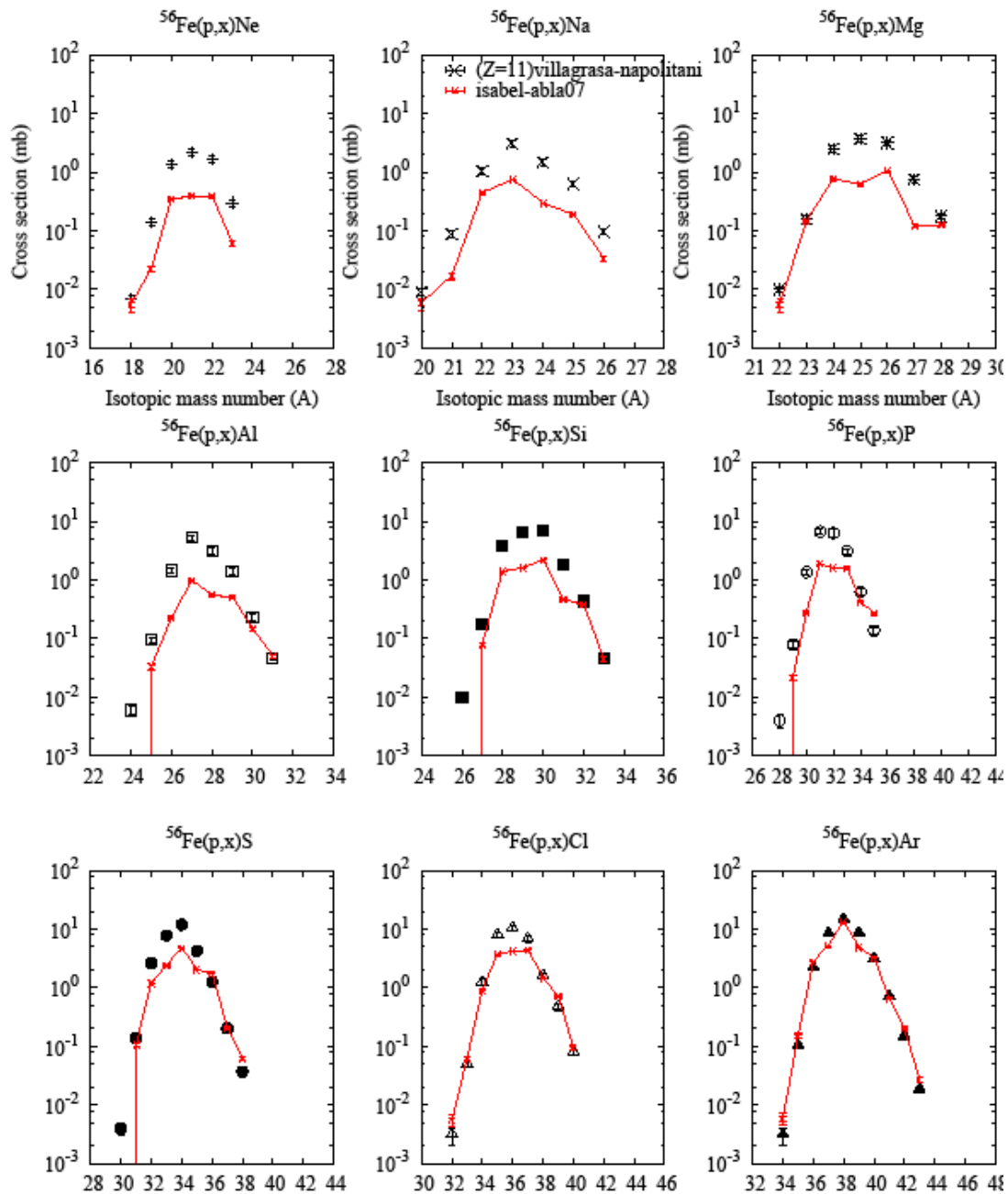


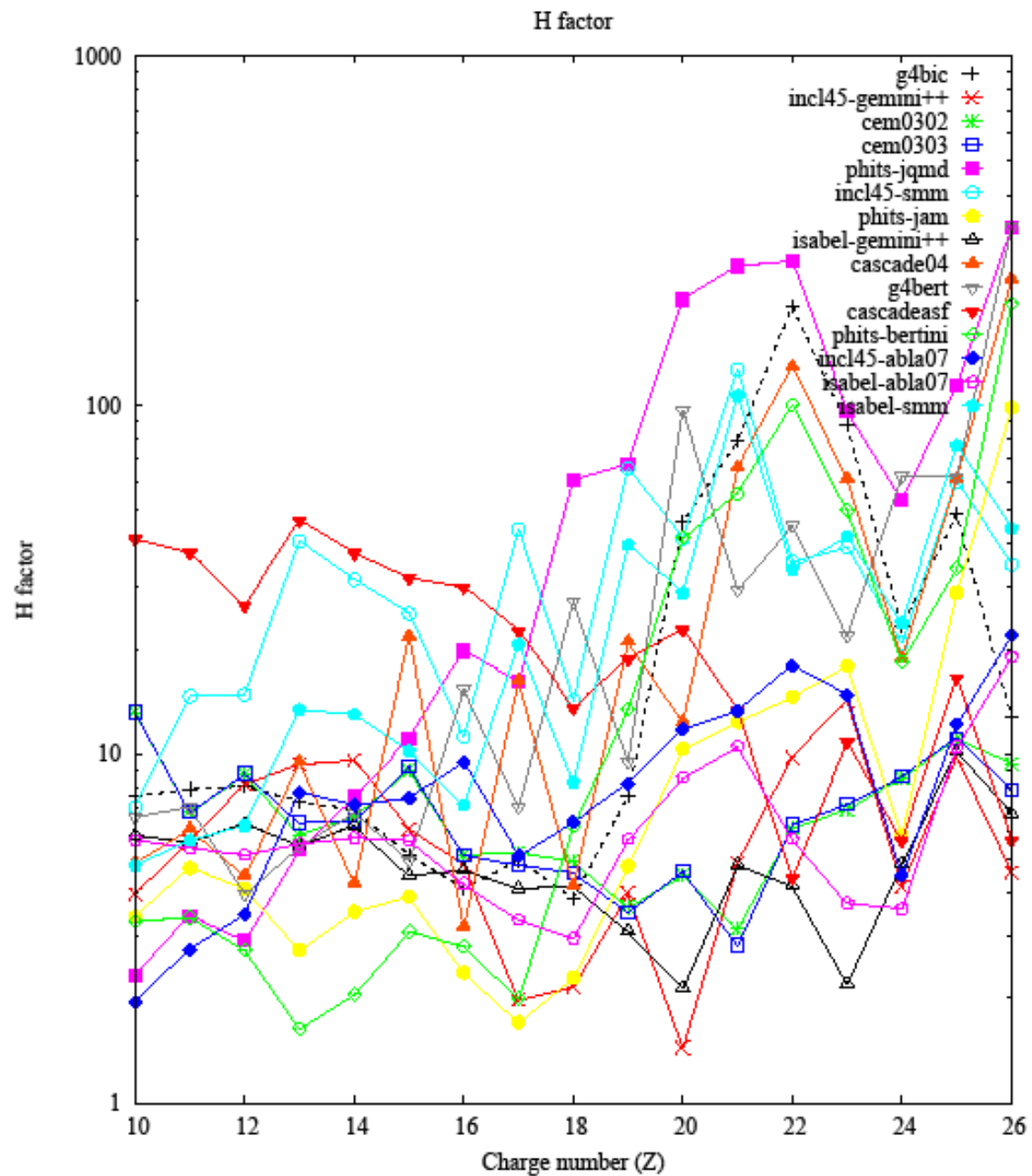


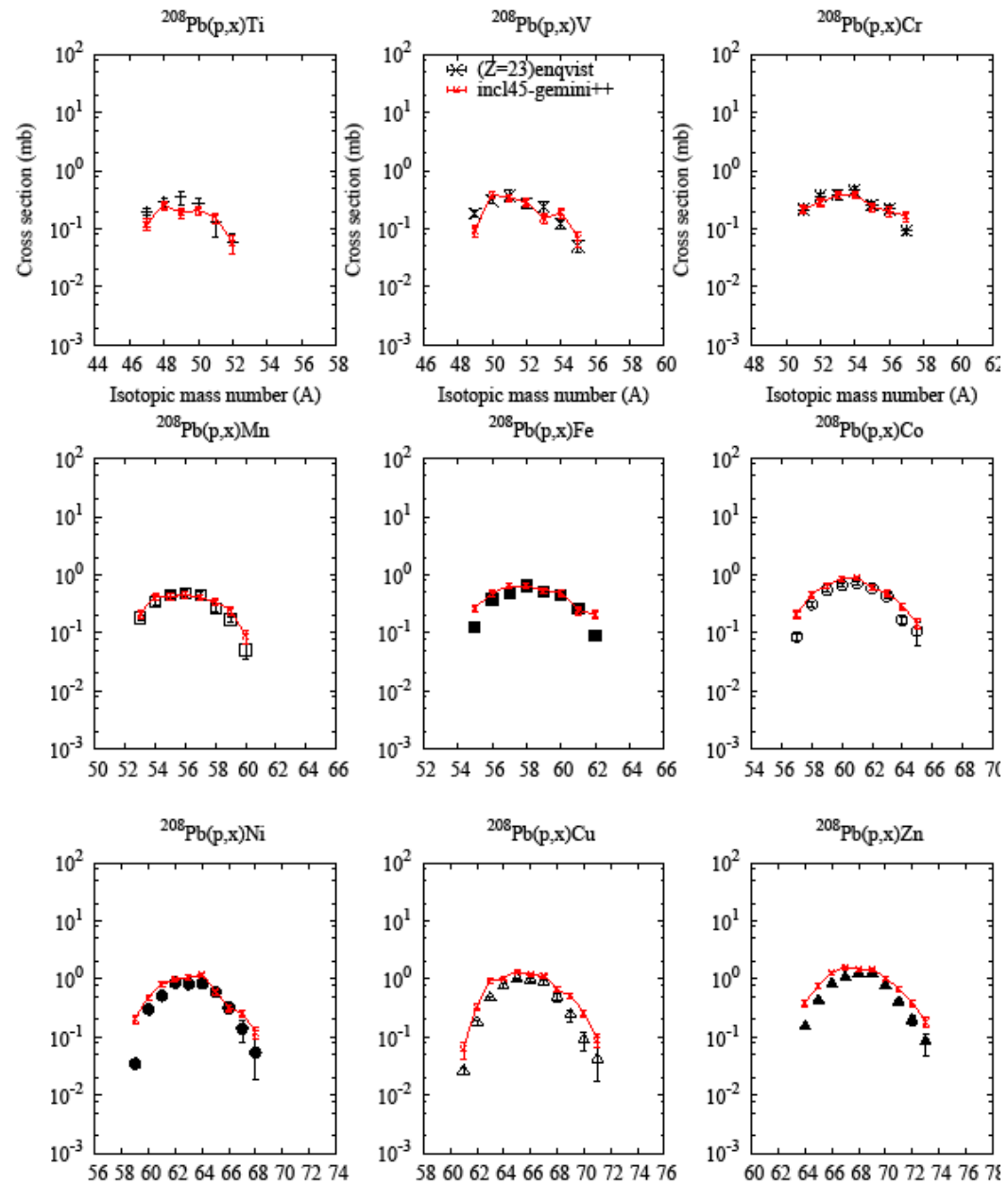


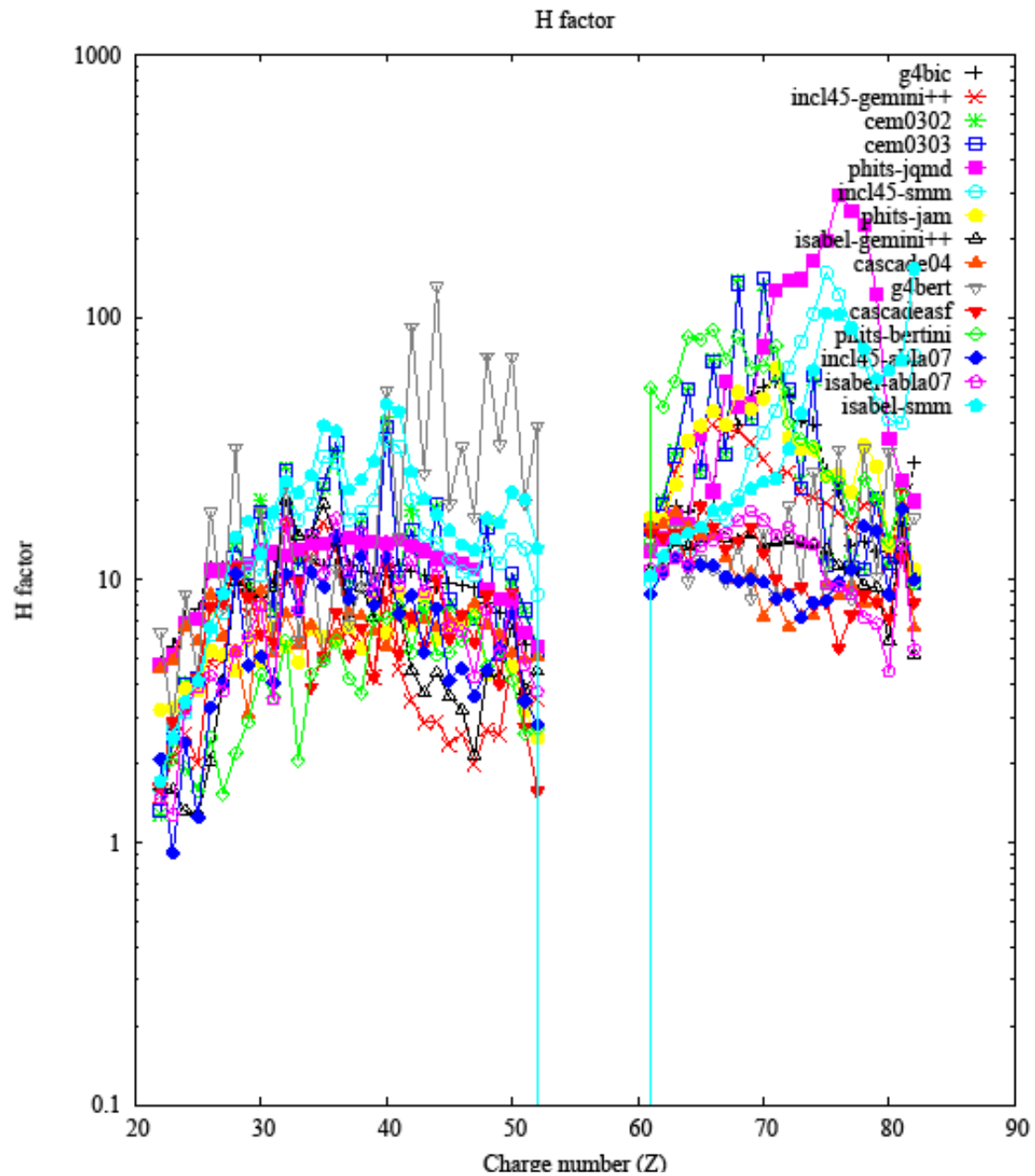












Excitation functions

