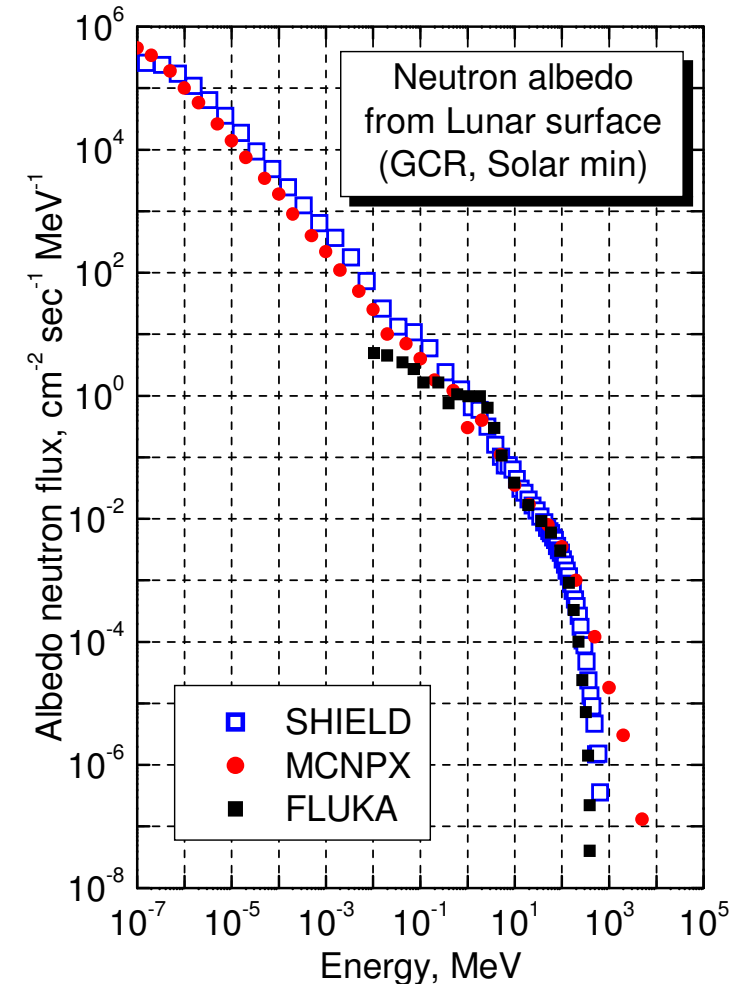
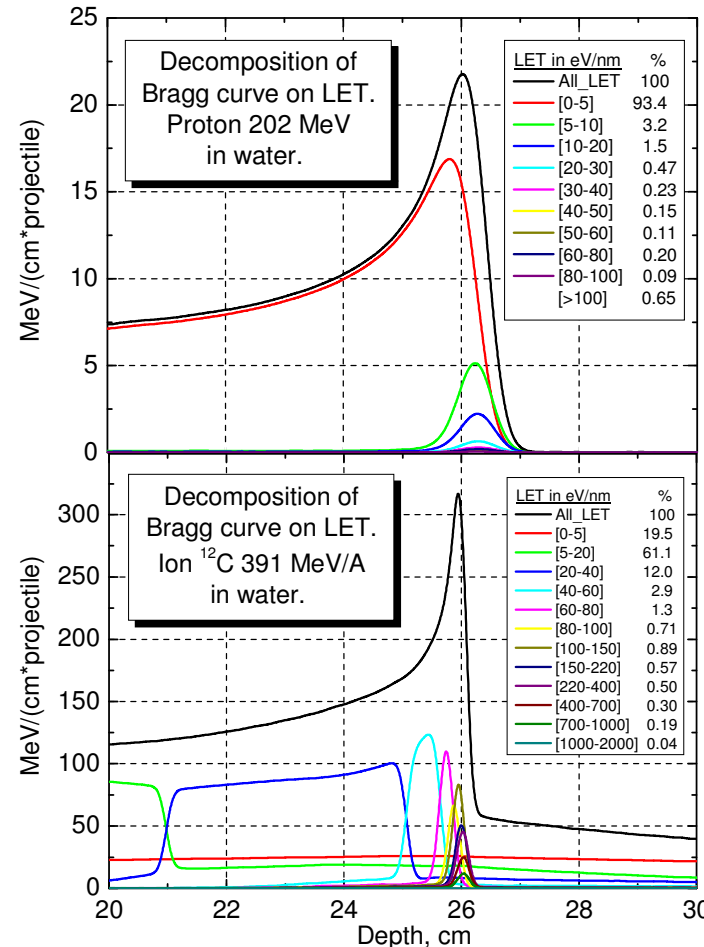
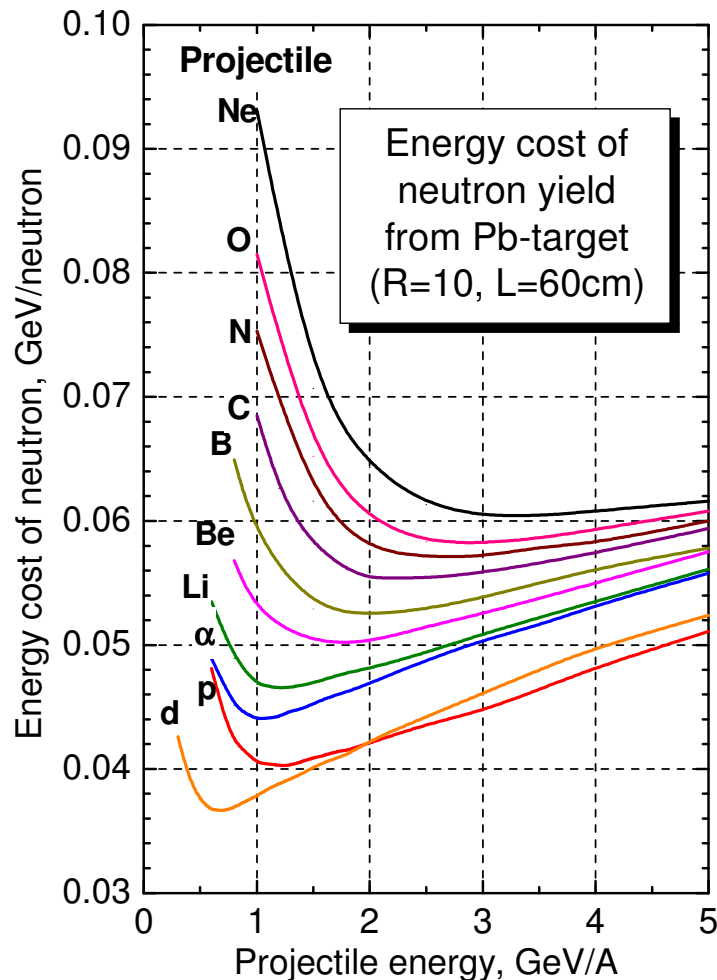


The SHIELD transport code <http://www.inr.ru/shield/>. Since 1970. An original Russian code based on nuclear models developed in JINR (Dubna) and INR RAS.

The current version of SHIELD has the same scope as MCNPX, FLUKA, PHITS, Geant4: accelerator driven systems (ADS), space environment, hadron therapy <https://svn.nfit.au.dk/trac/shieldhit>, deep underground experiments etc.



Multipurpose Monte Carlo transport codes

(sorted by year of appearance)

SHIELD <http://www.inr.ru/shield/>

Hadron version (1970)→Heavy Ion transport version (1997)
“Heavy Ion Therapy” – SHIELD-HIT (2001)

MCNPX <http://mcnpx.lanl.gov/>

NMTC(1971)→HETC(1972)→LAHET(1989)→MCNPX(1997)

FLUKA <http://www.fluka.org/>

Inclusive version (1974), Exclusive version (1992)

MARS <http://www-ap.fnal.gov/MARS/>

Inclusive version (1974), Exclusive version (2007)

Geant4 <http://geant4.web.cern.ch/geant4/>

GEANT(1978,e γ)→GEANT3(1980)→Geant4(1998)

PHITS (2003) <http://phits.jaea.go.jp/>

(**P**article and **H**heavy **I**on **T**ransport **S**ystem)