

Simulation codes for Monte Carlo ray-tracing of neutron instruments (incomplete?)

- US codes:
 - NISP (P Seeger & L Daemen, LANL)
 - IDEAS (X-L Wang ORNL, originally H Lee ORNL)
 - Instrument Builder (JK Zhao ORNL)
 - McVine (engine of the DANSE vnf project) (J Lin Caltech)
- European codes:
 - RESTRAX/SIMRES (J Šaroun, NPI & J Kulda, ILL)
 - VITESS (K Lieutenant et al. HZB plus S Manoshin JINR)
 - McStas (P Willendrup & E Knudsen DTU, K Lefmann KU, E Farhi ILL, U Filges PSI)
 - [NADS (P Bentley ESS)]
- Japanese code:
 - PHITS (MCNP-like) has a few features for instrument beam transport
- There may be others I do not know of...