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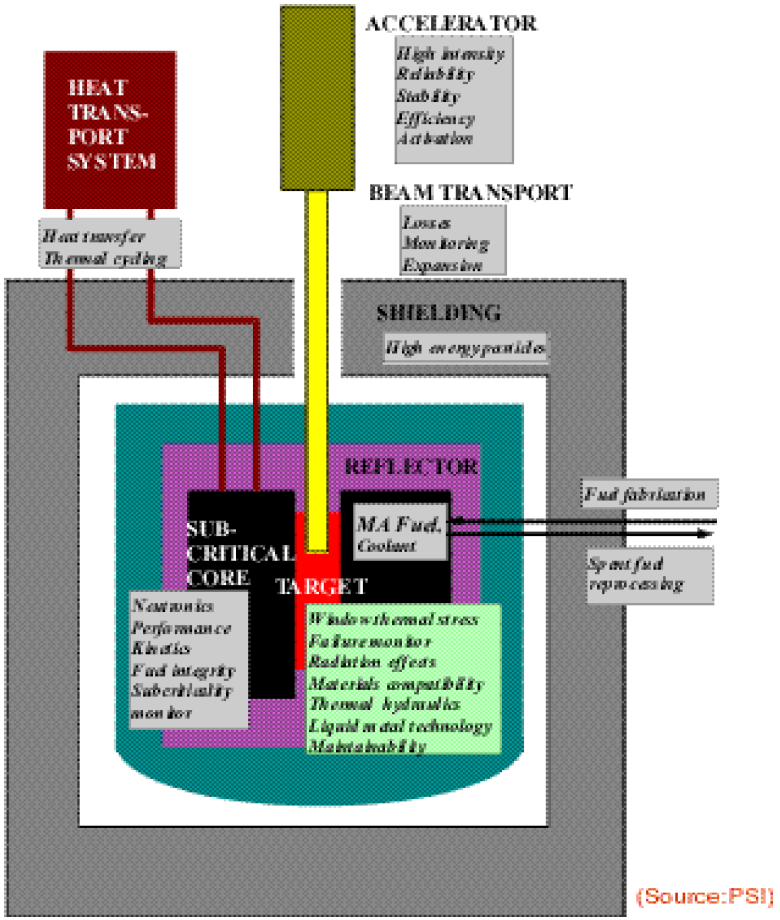

Vast R & D activities in order to address these problems

Source: Y. Kadi, CERN (pers. comm.)

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- Basic underlying physics checked at zero power
  - Spallation process and neutron yields with proton beam in a wide range of energies
  - Fission rates and main reactor physics features (FEAT sub-critical assembly with k ?0.9 has demonstrated energy gain in agreement with calculations)
  - Transmutation rates for LLFP (TARC experiment: LLFP elimination by “adiabatic resonance crossing” demonstrated for ^{129}I and ^{99}Tc)
  - Most key reactions fully tested at low power level
  - Comprehensive programme of neutron induced cross-section measurements started (n_TOF Project)