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30 years of fast neutron beams at iThemba LABS: retrospective waypoints and future horizons

The fast neutron facility at iThemba LABS is about to undergo a major upgrade with a respect to both its physical infrastructure and supporting instrumentation. The new vault will be designed to both serve a wider spectrum of users, as well as to meet the requirements to be recognised as a designated metrological facility for fast neutron beams between 30 and 200 MeV. Since its construction in the 1980s the facility has remained largely unchanged, but has featured a wide assortment of projects, both fundamental and applied. Vignettes from a selection of “waypoint” projects from the last 30 years will be presented, together with thoughts on the opportunities that the new facility will offer.

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