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The challenges to maintain good accelerator reliability in an ageing facility when the institute embarks on new projects to stay relevant in the research community

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iThemba LABS operates four cyclotrons and three electrostatic accelerators. The age of these accelerators varies from 2 to 34 years. Aging accelerators bring its own unique reliability issues depending on the type and use of the accelerators. When an institute also embarks on a number of new projects to stay relevant in the national and international research communities, with no increase in manpower, accelerator reliability becomes a difficult challenge. This talk will discuss the different methods which were put in place to ensure that iThemba LABS will maintain the high reliability standards that was set in the past.

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