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Nuclear structure studies at FAIRs ring branch

The ring branch at FAIR will consist of three different storage rings that are used to prepare circulating rare ion beams with suitably selectable parameters in few seconds time scale. This, together with the increased secondary beam intensities from FAIRs synchrotron and the Super Fragment Separator, leads to unprecedented conditions for physics experiments in storage rings. Several experimental facilities that are foreseen to be installed in the New Experimental Storage Ring will be presented & motivated with their associated physics programme. The performance and opportunities of in-ring experiments will be opposed to “conventional” experimental techniques and discussed.

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Track Classification: Nuclear Structure and Ground-State Properties