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Insertion Devices and Beamlines for the Proposed Australian Synchrotron Light Source

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The proposed Australian synchrotron light source, Boomerang, is a third generation 3 GeV storage ring which is designed to provide for the great majority of Australian requirements for synchrotron radiation well into the next century. The storage ring could accommodate up to 60 experimental stations, including beamlines from 9 insertion devices, which far exceeds the projected Australian requirements over the life of the facility. Undulator radiation will be available up to 20 keV.

The first phase construction of Boomerang includes funding for 9 beamlines, comprising 5 bending magnet and 4 insertion device beamlines. The beamline complement has been chosen to cater for approximately 95% of the current and projected Australian demand for synchrotron radiation over the first 5 years operation of the facility. Details will be shown of the performance of the proposed insertion devices, and the initial beamline complement will be presented.

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