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The AXXS Upgrade Proposal

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The Australian Synchrotron has been in operation for users since 2007 while the first electron beam was achieved ten years ago. This proposal is for an upgrade to the accelerator systems and improve the source for the next set of beamlines proposed in Science Case Two to keep the facility state-of-the-art for the decades to come. The concept is to replace the existing storage ring with a Diffraction Limited Storage Ring, upgrade the injection system to a full energy x-band linac which can be used for an X-Ray Free Electron Laser. The project to develop these plans is entitled Australian X-Band X-Ray Source (AXXS).

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