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X-ray Optics Upgrade Program for the AS Powder Diffraction Beamline

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The Powder Diffraction (PD) beamline at the Australian Synchrotron has operated its User program for 11 years with over 1200 proposals submitted and more than 650 experiments completed. These experiments and the collaborations with the beamline team have assisted the User Community in producing over 600 publications across a broad range of scientific fields. As the PD beamline ages, several end-of-life issues have arisen requiring replacement of key internal optical components. A major upgrade program has been undertaken by ANSTO to address the end of life issues at the PD beamline and improve its performance by modifying the design to match the properties of the source, optics and endstation to enable enhanced performance for the future. This presentation will describe the features of the optical upgrade program to be undertaken at the PD beamline and outline the future benefits to the User Community.

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