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## Improvements to Diamond Light Source RF Amplifiers

*Thursday 23 June 2016 12:00 (30 minutes)*

Reliability of Diamond Light Source has improved enormously since operation for users began in 2007, with overall machine MTBF for the 12 months to May 2016 over 120 hours. Details are presented of reliability-related management and improvements to both storage ring and booster amplifiers. Beam quality is also an issue for users and so work has been carried out to minimise and remove high frequency noise on the beam arising from the IOT high voltage power supply. Plans to introduce normal conducting cavities into the storage ring to support superconducting cavity operation also introduce challenges and opportunities for amplifier operation and so an overview of amplifier work in relation to this project is discussed.

### Summary

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