



IAEA FEC 201

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## **Overview of ITPA R&D Activities for Improvement of ITER Diagnostic Performance**

*Wednesday 19 October 2016 14:00 (4h 45m)*

The International Tokamak Physics Activity (ITPA) Topical Group (TG) on Diagnostics has been conducting R&D activities to support improved ITER diagnostic performance. Highlights of the Topical Group activity focus on: (1) mitigating degradation of first mirrors in optical systems, development of techniques for removing impurity deposition on mirrors; (2) characterization of in-vessel stray-light to reduce impact on diagnostics; (3) diagnostics of escaping alpha particles, feasibility tests of the activation probe method under a multi-machine joint experiment; (4) studies of real time diagnostics, measurement of surface temperature of in-vessel components using infrared thermography.

### **Country or International Organization**

Japan

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**Author:** Dr KAWANO, Yasunori (National Institutes for Quantum and Radiological Science and Technology)

**Co-authors:** Dr BROWER, David Brower (University of California Los Angeles); Dr VAYAKIS, George (ITER)

**Presenter:** Dr KAWANO, Yasunori (Japan Atomic Energy Agency)

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