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Overview of ITPA R&D Activities for Optimization of ITER Diagnostic Performance

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In this paper, highlighted progress of the Topical Group activity is overviewed. International Tokamak Physics Activity (ITPA) Topical Group on Diagnostics has been conducting the R&D activities for supporting the optimization of ITER diagnostic performance. For diagnostics of escaping α particles, assessment of several measurement techniques have been carried out, especially, feasibility test of activation probe technique has progressed under a multi machine joint experiment. For mitigation of degradation effects for plasma facing first mirrors, development of cleaning techniques for beryllium proxy impurities deposited on mirrors has progressed by the use of plasma discharges. Characteristics of wall reflected stray-lights have been investigated towards to mitigate their impact on optical diagnostics.

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