

Irregular states and surface defects in AGT correspondence

We developed the analogue of Gaiotto-Whittaker state in 2d WZW CFT. In the generalized AGT correspondence, this theory is dual to the 4d Argyres-Douglas theories with codimension 2 defects. We evaluated the inner product of the irregular state with primary state, which should correspond to the partition function of AD theory with defect.

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