

Argyres-Douglas Theories, Isomonodromy and Topological Recursion

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Argyres-Douglas theories are certain supersymmetric physical theories in four dimensions, many of which belong to “Class S” and are in some sense the simplest examples of such. On the other hand, isomonodromy is the analogue of the Gauss-Manin connection in non-abelian Hodge theory. I will explain how physical dualities between different Argyres-Douglas theories lead to remarkable identifications between different isomonodromy systems, closely related to those discovered by Boalch around ten years ago (as well as some that seem to go beyond these); I will also discuss how such dualities are related to the x-y symmetry in topological recursion due to Eynard and Orantin.

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