

# Instanton counting on ALE spaces and desingularization of moduli spaces of instantons

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Moduli spaces of framed sheaves on the projective plane are desingularizations of the moduli spaces of framed instantons on  $\mathbb{R}^4$ . The instanton counting for instantons on  $\mathbb{R}^4$  is indeed in practice performed on those moduli spaces. A natural question arises whether one can construct analogous desingularizations for instantons on other spaces, e.g., ALE spaces. It turns out that this construction is possible at the price of considering framed sheaves on root stacks.

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