

# ON THE LMO CONJECTURE

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We give a proof of the LMO conjecture which says that for any simply connected simple Lie group  $G$ , the LMO invariant of rational homology 3-spheres recovers the perturbative invariant  $\tau^{PG}$ . By Habiro-Le theorem, this implies that the LMO invariant is the universal quantum invariant of integral homology 3-spheres.

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