

# **O(6) harmonics in the three-heavy-quark problem**

*Wednesday 5 February 2020 18:00 (30 minutes)*

We have constructed  $O(6)$  permutationally symmetric three-particle hyper-spherical harmonics. These hyper-spherical harmonics were applied to the non-relativistic three-quark problem, yielding eigen-energies corresponding to various confining potentials. We display these energy level splittings up to the  $K=5$  shell as a function of confinement potential and briefly discuss the effects of relativity.

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