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

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We have constructed O(6) permutationally symmetric three-particle hyper-spherical harmonics. These hyperspherical 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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