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Nuclear electric dipole moment of 3-body systems in the Gaussian expansion method¹ NODOKA YAMANAKA, iTHES Research Group, RIKEN, EMIKO HIYAMA, Nishina Center for Accelerator-Based Science, RIKEN — The nuclear electric dipole moment is a very sensitive probe of CP violation beyond the standard model, and for light nuclei, it can be evaluated accurately using the few-body calculational methods. In this work, we evaluate the electric dipole moment of 3-body nuclear systems using the Gaussian expansion method with the Av8 nuclear force, and assuming the one-meson exchange model for the P, CP-odd nuclear force.

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