

Review of: "Ballistic Motion of Dust Particles in the "Collecting the Big Muley Lunar Rock" Sequence of the Apollo XVI Footage"

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Potential competing interests: No potential competing interests to declare.

This manuscript develops and integrates the previous study to introduce a robust analytical method to trace and analyze the movement of dust shot during the Apollo XVI mission on the lunar surface. By employing both 2D and 3D analysis techniques, they provide a detailed comparison of the observed kinematic events against theoretical models. By tracking the motion of the dust, they obtain information on its grain size and mechanical behavior in the lunar environment, about the validity of the expected motion models, and about the integrity of the original films with respect to the played framerate. This is a good paper to trace and analyze the movement of dust shot during the Apollo XVI mission using the robust analytical method.

My only comment is about Figs C3-C6, where to identify the rightness of the constructed coordinates.