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The low solar elongation part of the sky constantly observed by PUNCH is the same region of sky that many dedicated asteroid survey programs are restricted from viewing. PUNCH also differs from these surveys with its relatively large pixel sizes and small aperture as well as with constant imaging and its tsunami of data. To determine if PUNCH can be an effective asteroid discovery tool we compare predicted orbits and sizes of predicted, but not-yet-discovered, near-Earth objects and compare their putative brightness against limiting magnitudes for different amounts of processing and stacking of PUNCH images. Likewise, we estimate the chances for observing newly discovered comets.
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