

L27c Separation of the Leonids Radiants in 2001

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We have employed the new line detection method and successfully separated the two radiant points that correspond to the dust trails of Comet 55P/Tempel-Tuttle's perihelion passages in 1699 and 1866. This method integrates pixel values of a CCD image along a line direction, which enables us to detect 30 times fainter meteors than usual detection methods. It can also determine the angle of the line direction precisely. Radiant points of 2001 Leonids derived by this method were found to be consistent with those predicted by McNaught and Asher.