

## High-velocity impact crater made on snow and the impact melting

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High-velocity impact experiments on snow were conducted in the cold room to study the physical condition of impact melting together with the formation of crater. The two types of the target was prepared with the different porosities of 50and 80%. The nylon projectile was impacted at from 2.3 to 3.3 km/s. The impact melting was observed at the base of the crater for the target with the porosity of 50%. The excavated crater had a shape of truncated sphere which center was the depth of 5-projectile diameter.