

# Reflection of Cluster Beams on Metal Surfaces: Momentum and Heat Transfer

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Z. Naturforsch. **53a**, 663–669 (1998); received March 8, 1998

Beams of clusters, the latter containing about  $10^6$  nitrogen molecules, were reflected by polished metal surfaces, and the direction, the velocity and the composition of the reflected beams were studied as functions of the direction of the incident beam. It turned out that the clusters leave the reflector surface almost tangentially, with reduced velocity, and that besides the clusters the beams contain gaseous nitrogen formed during the impact.

*Key words:* Cluster Beams; Molecular Beams; Beam Surface Interaction; Cluster Reflection; Heat Transfer.

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