## XXXII

## ON A PROOF FROM QUATERNIONS OF THE CELEBRATED THEOREM OF JOACHIMSTHAL*

## Communicated 27 January 1851.

[Proc. Roy. Irish Acad. vol. v (1853), p. 71.]
Sir W.R. Hamilton added some remarks on a very simple proof of the celebrated Theorem of Joachimsthal, derived from the Calculus of Quaternions.

* [See Lectures, article 585. The theorem referred to is the following: 'For any central surface, if $P$ is the length of the perpendicular from the curve onto a tangent plane and $D$ is the length of the semidiameter parallel to the direction of the geodetic on the surface at the point of contact of the tangent plane, then $P D$ is constant.']

