

Surface mechanical properties based on Philae's touchdowns

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The bouncing of Philae gave us an unexpected opportunity to analyze mechanical surface properties of comet 67P/Churyumov-Gerasimenko. Touch down and flight kinematics could be reconstructed using data from Philae and Rosetta magnetometer measurements. We will present the current knowledge about what happened during the various touchdowns and derive compressive strength estimates for the surface material.