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Julie Rana* (jrana@umn.edu), **Jenia Tevelev** and **Giancarlo Urzua**. *The Craighero-Gattazzo surface is simply-connected*. Preliminary report.

We show that the Craighero-Gattazzo surface, the minimal resolution of an explicit complex quintic surface with four elliptic singularities, is simply-connected. This was first conjectured by Dolgachev and Werner. The proof utilizes an interesting technique: to prove a topological fact about a complex surface we use algebraic reduction mod p and deformation theory. (Received February 23, 2016)