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Nicola Garofalo* (rembrandt54@gmail.com), **Donatella Danielli**, **Arshak Petrosyan** and **Tung To**. *Recent progress in the parabolic Signorini problem*. Preliminary report.

I will present some recent results in the parabolic lower-dimensional obstacle problem. I will discuss the optimal interior regularity of the solution and the smoothness of the free boundary. Various new monotonicity formula will be discussed. (Received September 04, 2012)