1127-35-338   **Arshak Petrosyan***, Department of Mathematics, Purdue University, West Lafayette, IN 47907, and **Andrew Zeller**, Department of Mathematics, Purdue University, West Lafayette, IN 47907.
Signorini problem for parabolic equations with variable coefficients.

We will talk about some recent results on the Signorini problem for parabolic equations with variable coefficients, including the optimal regularity of the solutions and the regularity of a part of the free boundary. Our approach is based on establishing the boundedness and continuity of the time derivative, thus effectively reducing the problem to the known results in the elliptic case. (Received February 06, 2017)