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## Stability of the coincidence set of a solution to a parabolic variational inequality with an obstacle

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## **Abstract**

In this paper we propose a new technique for the stability analysis of the coincidence set of a solution to a parabolic variational inequality with an obstacle inside the domain. It is based on the reformulation of the initial inequality in the form of a parabolic initial boundary value problem with an exact penalty operator. © 2010 Allerton Press, Inc.

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## **Keywords**

capacity, coincidence set, obstacle problem, stability, variational inequality