Testing local monotonicity of a hazard rate

The hazard rate of a distribution is a function that makes precise the idea of ageing of products or people. A hazard rate that is increasing reflects deterioration in time, whereas a decreasing hazard rate means that a product actually gets more reliable having survived longer. In this talk, I will introduce the problem of testing for local monotonicity of a hazard rate. Several approaches to this testing problem will be discussed, one of which introduced by Piet Groeneboom and myself.