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Peter Kuchment* (kuchment@math.tamu.edu), Mathematics Department, Texas A&M University, College Station, TX 77843-3368, David Darrow (dpdarrow@utmb.edu), UT Medical Branch at Galveston, Galveston, TX, Yulia Hristova (ygh@math.tamu.edu), Mathematics Department, Texas A&M University, College Station, TX 77843-3368, and Guido Kanschat (kanschat@math.tamu.edu), Mathematics Department, Texas A&M University, College Station, TX 77843-3368. On detection of small low emission sources.

The problem of detecting the presence of a low emission small object on a high random background will be discussed. (Received September 20, 2009)