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**Research Article**

**Identifying Nonstationary Clock Noises  
Navigation Systems**

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**Abstract**

The stability of the atomic clocks on board the satellites of a navigation system is a reality where there are numerous physical phenomena that make the behavior of the clocks nonstationary. For this reason we have recently introduced the dynamic Allan variance (DAV) for an atomic clock. In this paper we discuss the dynamic Allan variance and the nonstationarities of atomic clocks. The analysis of both numerical and experimental DAV is an effective way of characterizing nonstationary clock noises.

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