**Seminarium Zakładu Fizyki Teoretycznej**

**Departament Badań Podstawowych**

**Narodowego Centrum Badań Jądrowych**

**Oct 27,**  **2021 (Wednesday),  h. 14:15**

**The seminar is held online:**

<https://www.gotomeet.me/NCBJmeetings/bp2_seminar>

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( Pennsylvania State University )

**"Physical implications of a fundamental period of time"**

**ABSTRACT:**

If time is described by a fundamental process rather than a coordinate, it interacts with any physical system that evolves in time. This talk will introduce the resulting dynamics and show that it is consistent with observations provided the fundamental period T is sufficiently small. Using the current accuracy of atomic clocks, an upper bound of T<10^(-33)s is obtained, which is five orders of magnitude below distance measurements at high-energy accelerators. A fundamental period of time could also have additional implications for lab experiments or cosmological observations.

Note the unusual time.