

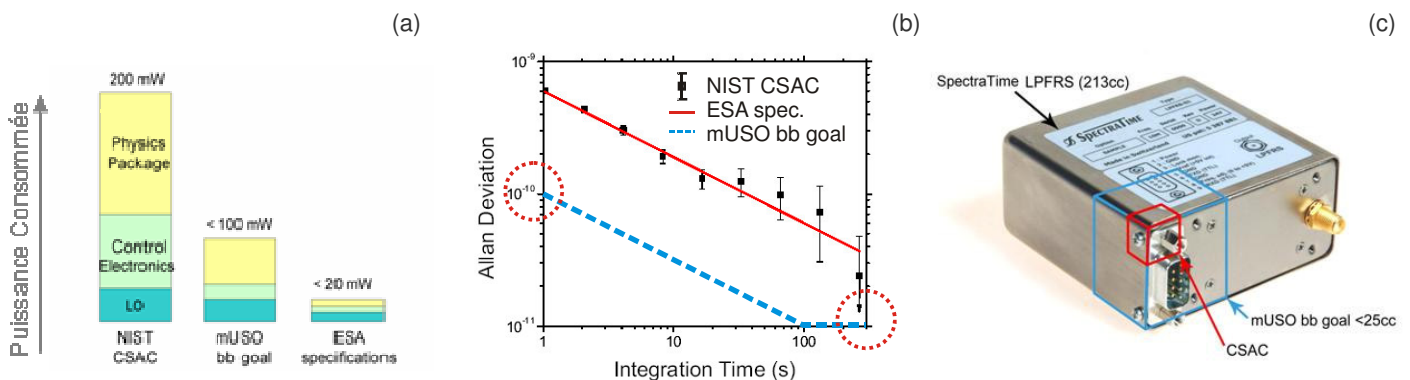
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## SpectraTime obtains a contract from the European Space Agency (ESA) for the realization of a miniature atomic clock

Neuchâtel, October the 1st 2007 - SpectraTime and three laboratories of the Institute of Microtechnique of the Neuchâtel University (SAMLAB, ESPLAB and LTF) under a consortium agreement won the invitation to tender "Miniature Ultra Stable Oscillators for Secure Telecommunications" launched by the European Space Agency (ESA). The project of half a million euros will start in autumn 2007 and will focus on the development of a miniature atomic clock.

SpectraTime, previously named Temex Time, is the European leader of atomic clocks for space applications. SpectraTime will develop the system's component, including integration and software, and will entrust to the IMT (Institute of Microtechnique of the Neuchâtel University) the research component of the clock's physical subset and the electronics development. "An atomic clock is made up of a quartz oscillator whose frequency is automatically stabilized after comparison with an atomic pulsation. This new project will consist of miniaturizing each component of the clock by using various techniques in micro-manufacture and materials such as Silicon and other semiconductors. The objective is to reduce the size and the consumption by 5 up to 10. With this new research, we are on the way to become a world's leader in atomic clocks for satellite navigation" explains Pascal Rochat, Managing Director of SpectraTime.



bb : bread board  
mUSO : miniature Ultra Stable Oscillators

performances comparison : consumption (a), stability(b) and dimensions (c)



**About SpectraTime**

SpectraTime, a company of the Orolia group, is a leading designer and manufacturer of advanced, low-cost rubidium and crystal oscillators, atomic clocks, smart GPS and multi-reference synchronized clocks, integrated GPS systems and high-precision instruments. Its products are used in a wide variety of high-performance applications including telecommunications, defense, navigation, instrumentation, broadcasting and space.

<http://www.spectratime.com>