



The PHM deviates less than 1 seconds in 1 000 000 years

Development History:

first developments started under the ESA Technology Demonstration Program during early 1990's for an Active Maser

- **In 1998:** kick off of the first contract for the development of an Active Maser for navigation applications
- **First half 2000:** re-direction of the activity towards the development of an EM Passive Maser
- **Early 2001:** follow on contract for the clock lifetime qualification and industrialization
- **First quarter 2003:** completion of EM test campaign, full characterization of the clock



EM PHM during integration



Coming soon:

First quarter 2004:
delivery of an EQM clock for the GSTBV2 satellite

End 2004:
delivery of the PFM clock for GSTBV2 satellite

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