

**Session Program**

**16-20 Oct 2023**

**9th Symposium on Frequency Standards and  
Metrology**

***Microwave Clocks and Oscillators***

Kingscliff, NSW, Australia  
Mantra on Salt Beach Kingscliff, Tweed Coast Gunnamatta Avenue, Kingscliff NSW

# Thursday 19 October

09:00

## Microwave Clocks and Oscillators

**Session** |

**Location:** Kingscliff, NSW, Australia, Mantra on Salt Beach Kingscliff, Tweed Coast Gunnamatta Avenue, Kingscliff NSW |

**Convener:** Prof. Enrico Rubiola

09:00–09:30

### Low-phase Noise Sapphire Oscillators with Improved Frequency Stability

**Speaker**

Eugene N. Ivanov

09:30–10:00

### Robust Design and Performance of NPL Cs Fountain Clocks

**Speaker**

Krzysztof Szymaniec

10:00–10:30

### Atomic Clock Ensemble in Space

**Speaker**

Luigi Cacciapuoti

10:30