



Contribution ID : 132

Type : invited

Frequency metrology and laser stabilization: tools for Quantum technologies

lunedì 29 agosto 2022 15:30 (90)

Nowadays, Time and Frequency Metrology are key elements in optics, spectroscopy, geodesy and Quantum Technologies. In particular, coherent fiber links (up to 1800 km) have been demonstrated powerful for frequency dissemination on ultra low noise scales. Laser stabilization is therefore crucial for frequency metrology and for high accuracy measurements. Here, we will present how these tools can be crucial in quantum technologies. A couple of examples regarding quantum communication and quantum sensing will be shown.

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Session Classification : Session 1