



# PHOTONICS LECTURE

MONDAY, 22 APRIL 2024 | 16:00

**PROF. DR. ZHENDA XIE**

**LECTURE HALL 02**

## Lithium Niobate: from bulk to thin film

The lithium niobate is one of the most efficient material for the nonlinear and quantum optical manipulation. Its study and application has been started from the bulk material in the 1980s, and the recent development of the thin film technology brings new opportunities to the old material. Throughout this development, the quasi-phase matching plays a crucial role to fully reveal the capability of the material, and major potential breakthroughs are expected in both classical and quantum integration, like fully stabilized optical frequency comb circuits, and quantum optical circuits, etc.



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