

# cQED@Tn - "Circuit QED: From Quantum Devices to Analogues on Superconducting Circuits"



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## Development of Kinetic Inductance TWPAs with DARTWARS

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In the landscape of superconducting Traveling Wave Parametric Amplifiers, an interesting approach is represented by devices based on the non-linearity of kinetic inductance of superconducting films. In particular, the employment of lumped element artificial transmission lines promises to deliver a parametric amplification over a wide bandwidth along with a high dynamic range, while limiting the gain ripple. In this contribution I will report on the development of a KI-TWPA within the DARTWARS project.

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