Title

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Where, when

Dipartimento di Fisica e
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UNIVERSITÀ
DEGLI STUDI
DI PADOVA

First topic

Slide title

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- Expose myself to different fields of physics and learn far-reaching methodology.

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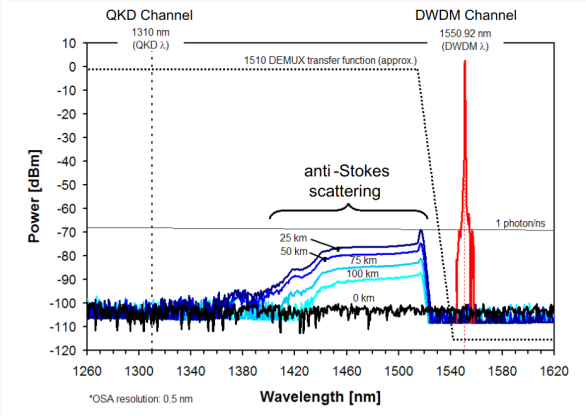
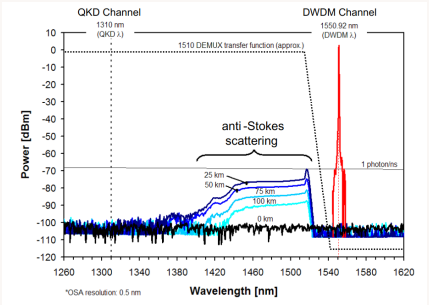
My contribution to the Ph.D. program

- Synthesize original ideas in physics of matter using concepts from my multidisciplinary background.
- Help building bridges between adjacent fields of physics, and engineering.

State of the art

Frame with images and citations





(a) Transverse width for different interaction strengths

Solitons have been observed in ^{7}Li BEC [**khaykovich2002formation**]. They are "solitary waves", i.e. non-dispersive matter-waves which preserve

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"The survey of the currently available results clearly demonstrates that there remains a *vast room* for *further theoretical* and experimental *studies* of solitons and related self-trapped modes in photonics, *BEC*, and other quickly developing areas of physics."

The research activity starts from these premises!

quote from Boris A Malomed and Dumitru Mihalache (2019) [**malomed2019nonlinear**].

Thanks for the attention!

Relevant references i

Additional material