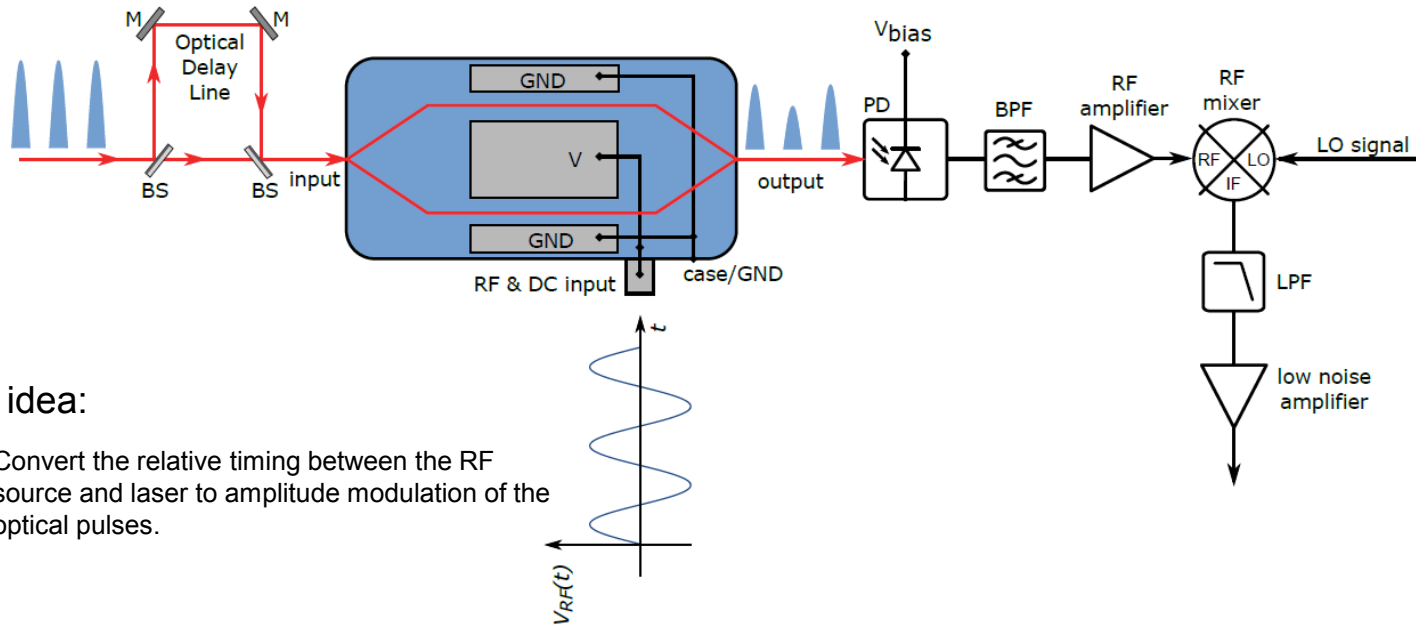


Speed Poster.

Femtosecond Level Laser-to-RF Synchronization Developments at REGAE.

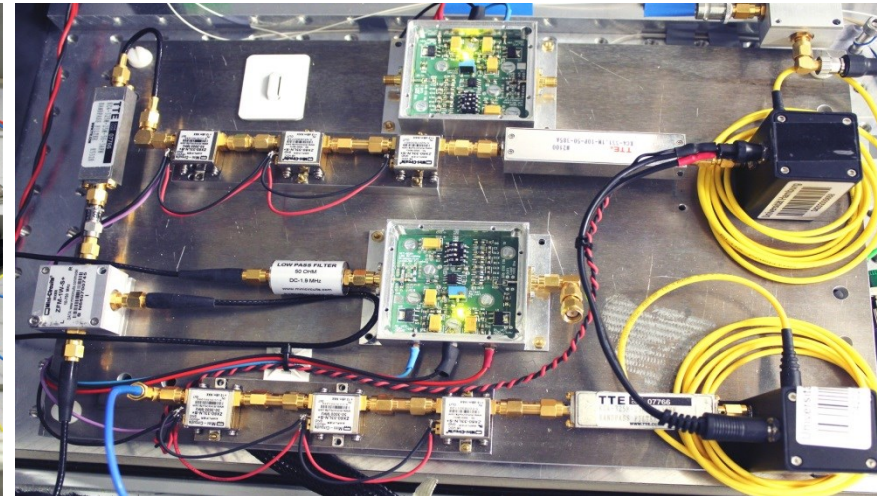
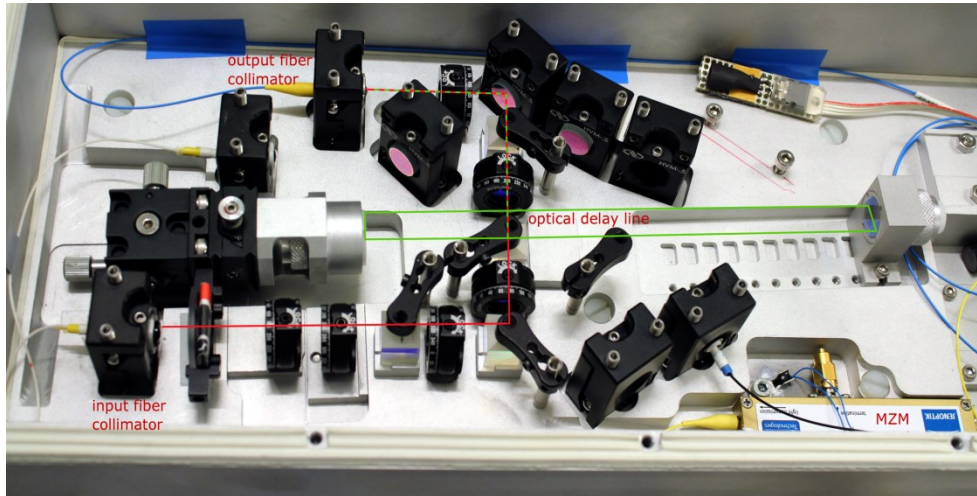
Mikheil Titberidze (DESY-MSK)
5th ARD ST3 Annual Workshop
Zeuthen, 19-21 July 2017

Speed Poster.



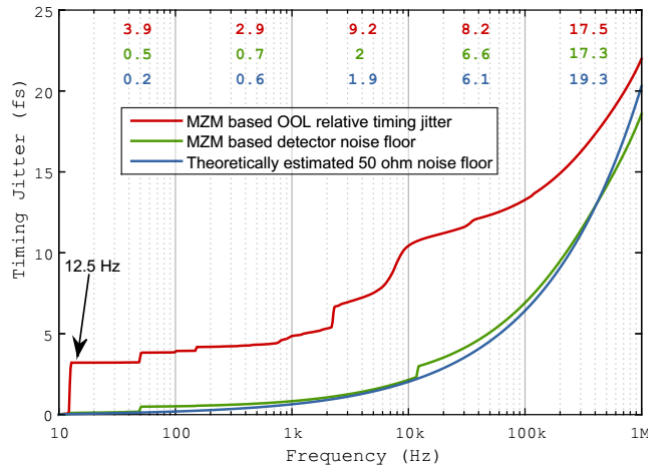
> Main idea:

- Convert the relative timing between the RF source and laser to amplitude modulation of the optical pulses.



Speed Poster.

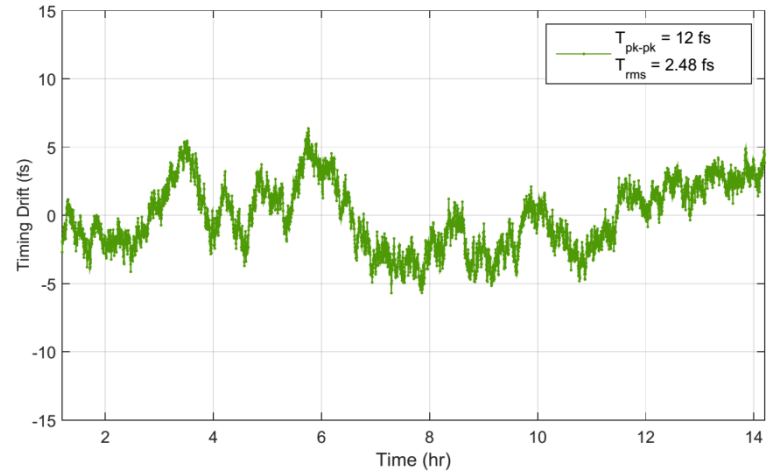
➤ Previously achieved results:



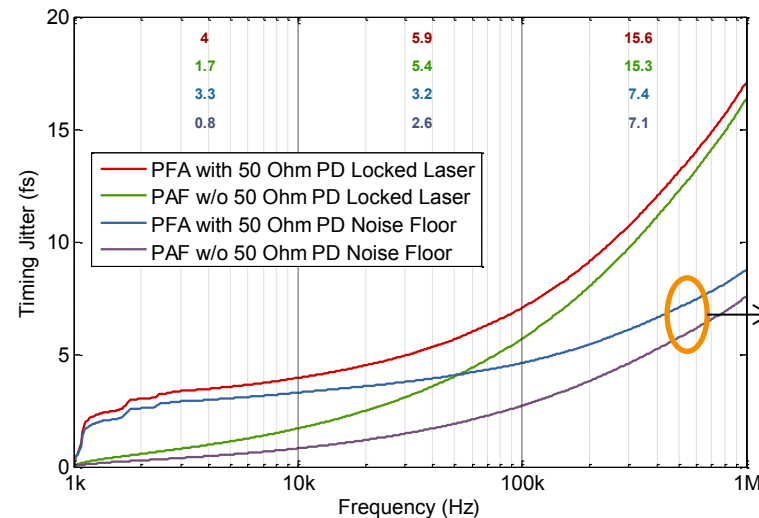
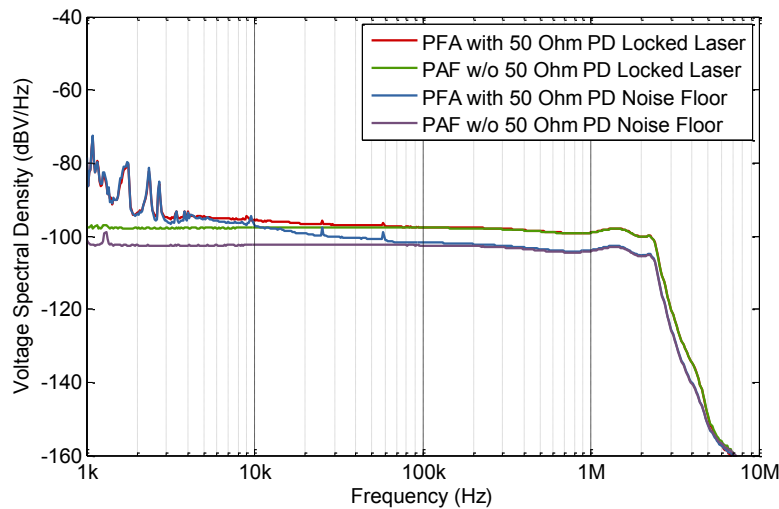
Fs level laser-to-RF synchronization at REGAE

M Titberidze¹, M Felber¹, T Lamb¹, R Loch², C Sydlo¹ and H Schlarb¹

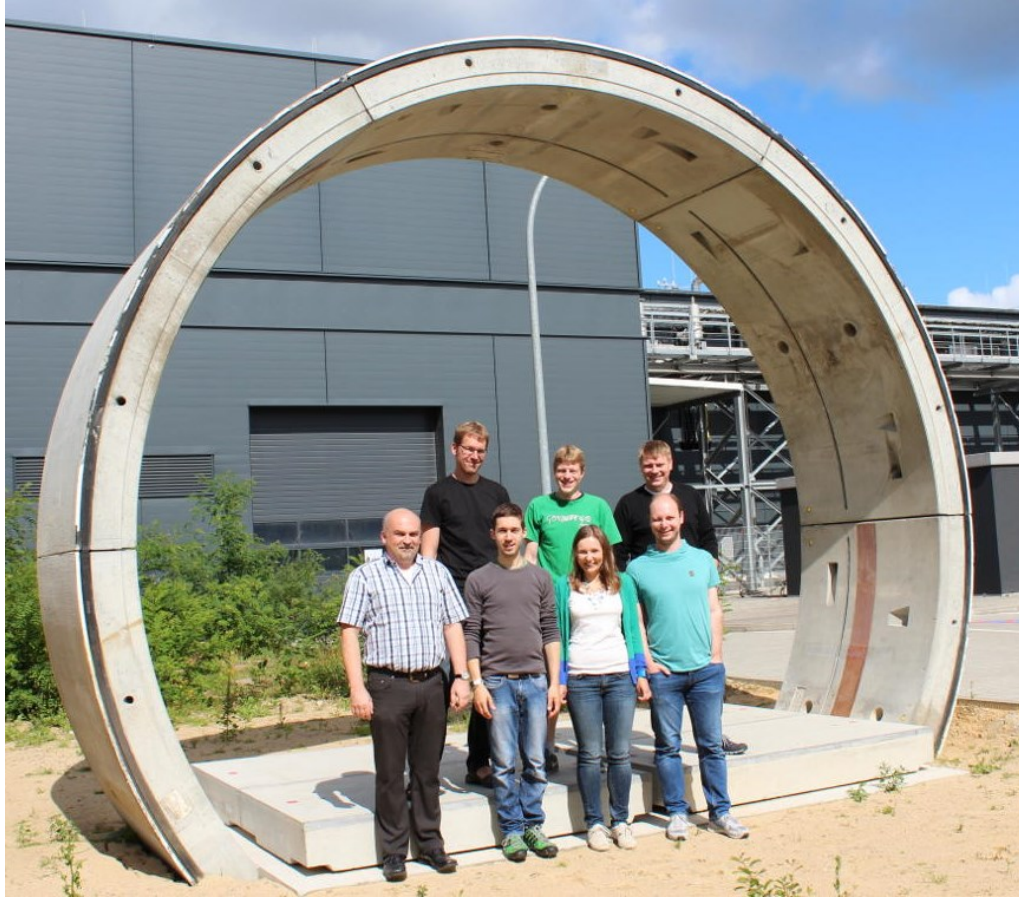
accepted in IOP Journal of Physics



➤ Current results in terms of improved detector noise floor:



Thank you for your attention!



Group Leader

Holger Schlarb

Sync Team

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