

e- source 10 Hz operation

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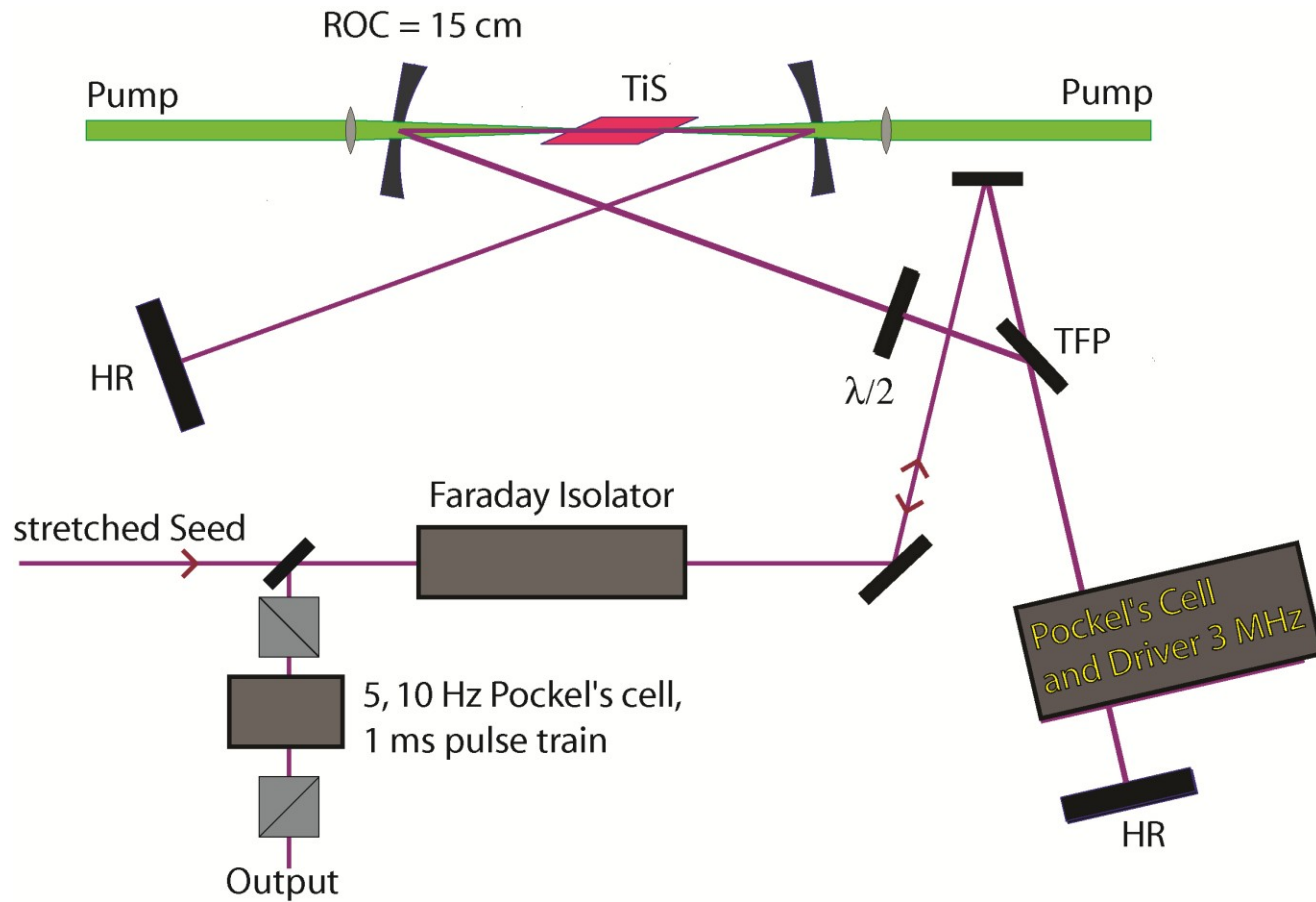
BAW2, SLAC

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RDR design

- Source for e^+ will use the same laser system as e^- source
- Ti:sapphire mode-locked oscillator (~ 76 MHz)
- Regenerative amplifier will switch pulses in and out at 3 MHz
- Result is an amplified pulse train: cw at 3 MHz
- External pulse slicing at 5 Hz or 10 Hz
- Possibility of simplified laser system can be evaluated as no polarized electrons are needed for e^+ source

Laser system



Other 10 Hz concerns

- Dissipation of additional power
 - SHB system
 - NC acceleration of e- beam
 - Dumps
- No engineering effort at this time