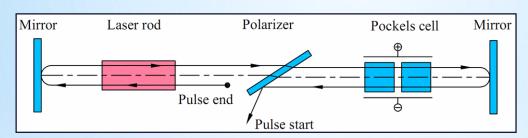


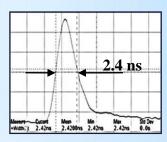
## 1 J@3ns 50 Hz Q-switched Nd:YAG laser at 946 nm (currently R&D)

The laser is based on scheme:

 $\textbf{Master Oscillator} \rightarrow \textbf{Regenerative Preamplifier} \rightarrow \ \textbf{Power Regenerative Amplifier}$ 

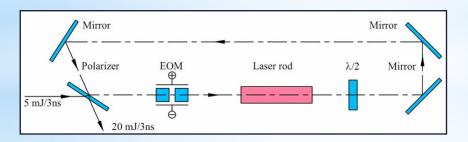
Master oscillator: 5 mJ@3 ns Q-switched Nd:YAG at 946 nm with cavity dumping



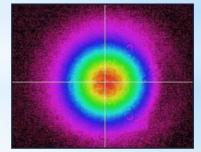


In the **cavity dumping** mode pulse duration is equal to the time of one round-trip of the cavity:  $t_p = 2L/c$ . Pulse duration is short and stable!

## Regenerative Preamplifier: 20 mJ@3 ns at 946 nm

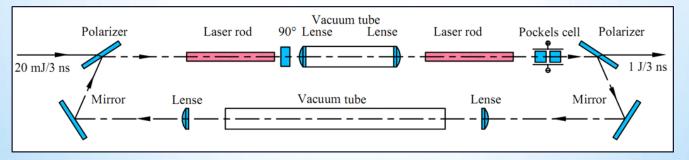


Due to the deep saturation the output energy is very stable! (RMS < 4%)



Beam divergence <1.3×DL

## 1 J@3 ns Power Regenerative Amplifier at 946 nm (under development)



Phone: +7 812 323 19 08 <u>www.los.su</u> los\_spb@mail.ru