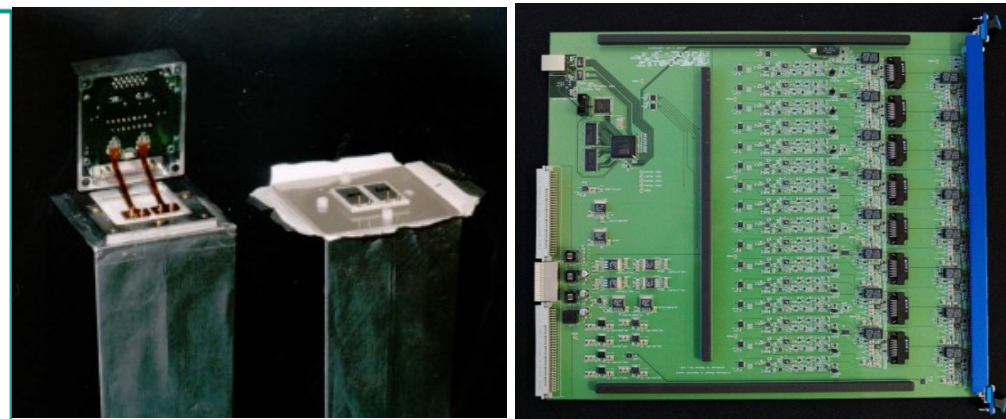
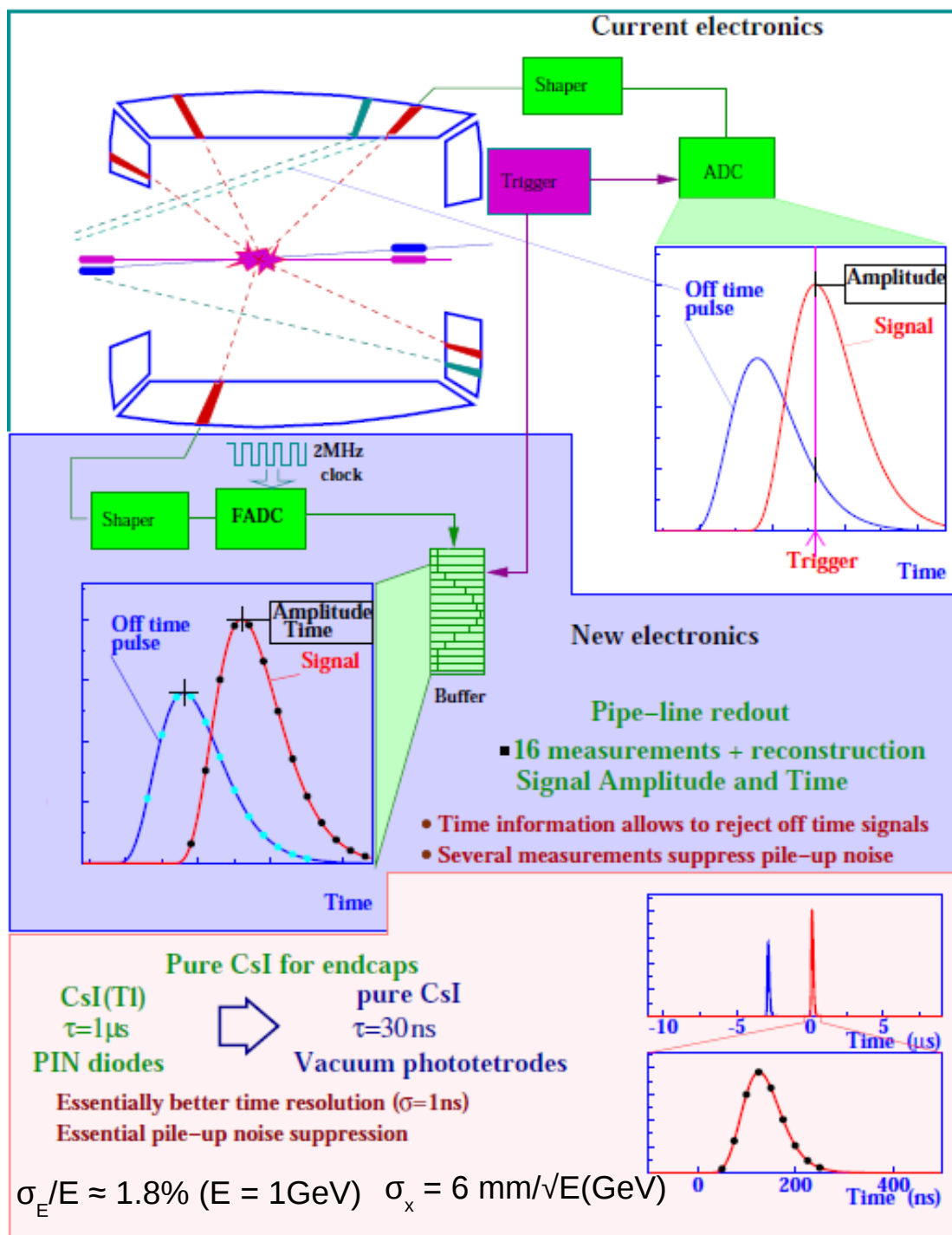


Calorimeter is based on 8736 CsI(Tl) crystals (40 tons) with the thickness of  $16X_0$  (30 cm). It is located inside magnetic field of 1.5 T and covers the solid angle of 91% of  $4\pi$ .



- Crystals  $300 \times (50-80) \times (50-80)$  mm
- Wrapping  $200\mu m$  teflon +  $50\mu m$  Al mylar
- Readout 2  $10 \times 20$  mm PIN diodes
- 2 charge sensitive preamplifiers
- Shaper  $CR-(RC)^4$ ,  $\tau=1\mu s$
- Lightoutput 5000 p.e./MeV
- Electronic noise  $1000e \approx 200 keV$
- Electronics with pipe-line readout and waveform analysis (in the 16-ch Shaper-DSP board) has been developed. It is successfully being exploited now at Belle II.
- To decrease **notable pileup noise** by a factor of  $\sqrt{(1000 ns/30 ns)=5.5}$  in the endcap ECL (1152+960 ch), CsI(Tl) crystals are planned to be changed to pure CsI crystals.

