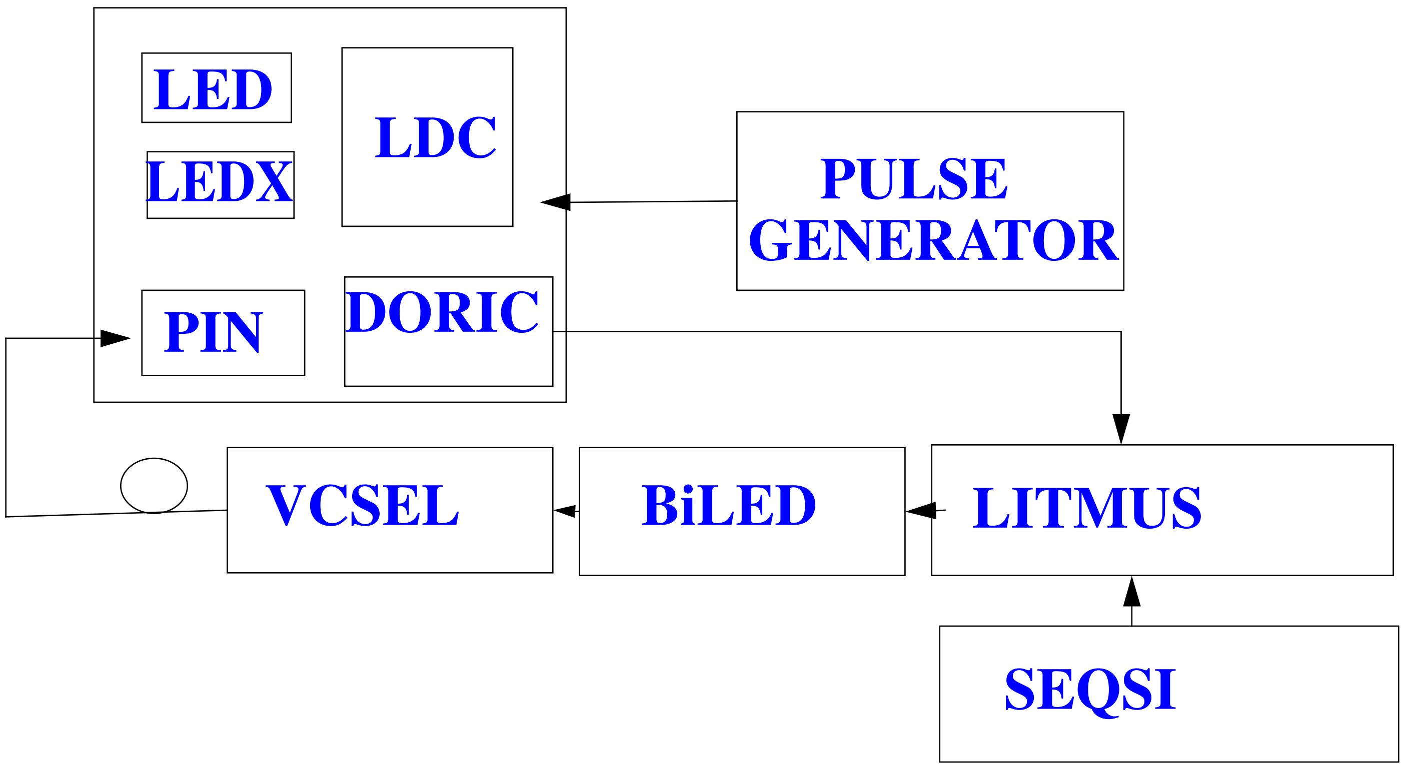
X-Talk Measurements

- **Test concept of separated optics and electronics for forwarad SCT modules.**
- **Test system: how we measure x-talk.**
- **Results from:**
  - **Pedja's test board**
  - **Liverpool board (Tony Smith)**
  - **Freibourg board (Zdenek Dolezal)**
- **Future work:**
  - **study ground options**
  - **optimised packages**
  - **test with real hybrid**

Measurement System

• BER Measurement



• Measure minimum optical power for BER<10^{-9}

• Repeat with 20 mA pulses to LED (LEDX).

Measurement Results

- **Pedja's test board (==> Figure). No measurable cross-talk.**
- **Liverpool test board:**

Minimum Optical Power for BER<10^{-9}

Table 1:

Pulse	Optical power
-	119
LED	136
LEDX	153