# **Power measurement 2 August**

P4

main

slow

Safety box

**^P3** 

### 28 June (TS Liyuan)

P1) DP2-447 output: 93 mW

**P2) Before fold mirror 3:** 83 mW *-0.49dB* **P3) After attenuator:** 77 mW *-0.82 dB* 

**P4) After 1m fibre:** 65 mW **-1.44dB** 

11 July (moving mirror + cleaning)

P1) DP2-447 output: 89.3 mW

**P2) Before fold mirror 3:** 80 mW -0.47dB

P3) After attenuator: 70.5 mW - 1 dB

**P4) After 1m fibre:** 62.5mW -**1.55dB** 

### 2 August before intervention

**P0)** Before filter: 102 mW

P1) DP2-447 output: 80 mW

**P2)** Before fold mirror 3: 69.3 mW -0.6dB **P3)** After attenuator: 60.5mW -1.2 dB

**P4) After 1m fibre:** - (don't want to touch main fibre)

#### 2 August after moving 4

P1) DP2-447 output: 93 mW

**P2)** Before fold mirror 3: 84 mW -0.45dB **P3)** After attenuator: 68 mW -1.36 dB

**P4) After 1m fibre:** - (don't want to touch main fibre)

# **Power measurement 2 August**

## **Intervention:**

- Increasing decreasing diode current in order to perform power measurement;
- Moving and cleaning a bit the filter 4 in order to move the beam out of the spot: spot clearly visible because of blue reflection on its surface;
- Main fibre untouched do not create a second effect. This could explain why the overall loss is slightly higher than the 28 June (with same power P1). Overall alignment could be checked later on;
- Spot on mirror: occurred after 28 June (because of same power at this date), immediately after Liyuan's visit when B field was put ON, id. when data restarted.
- Wait and see if filter will be damaged again soon. If yes, dust could be excluded.