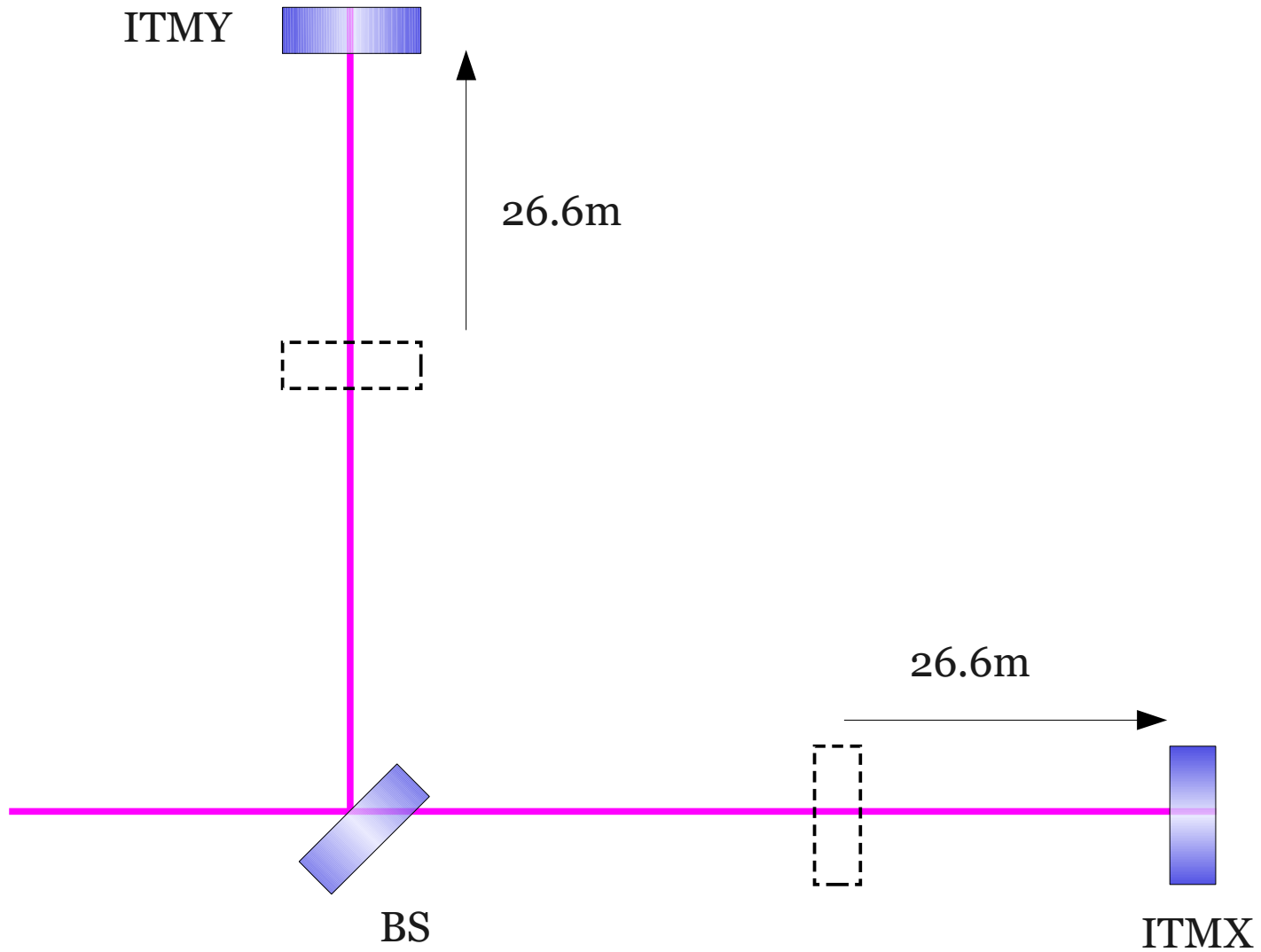
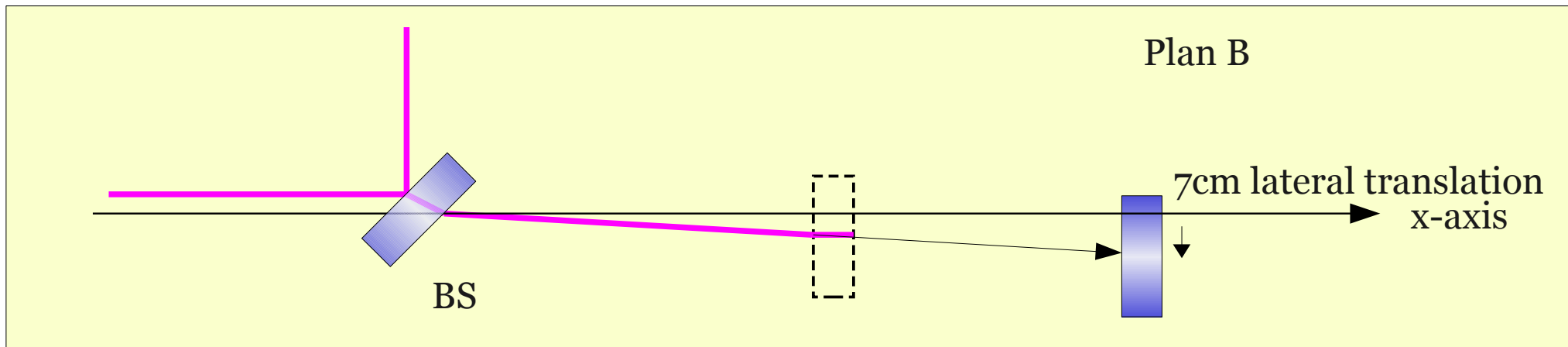
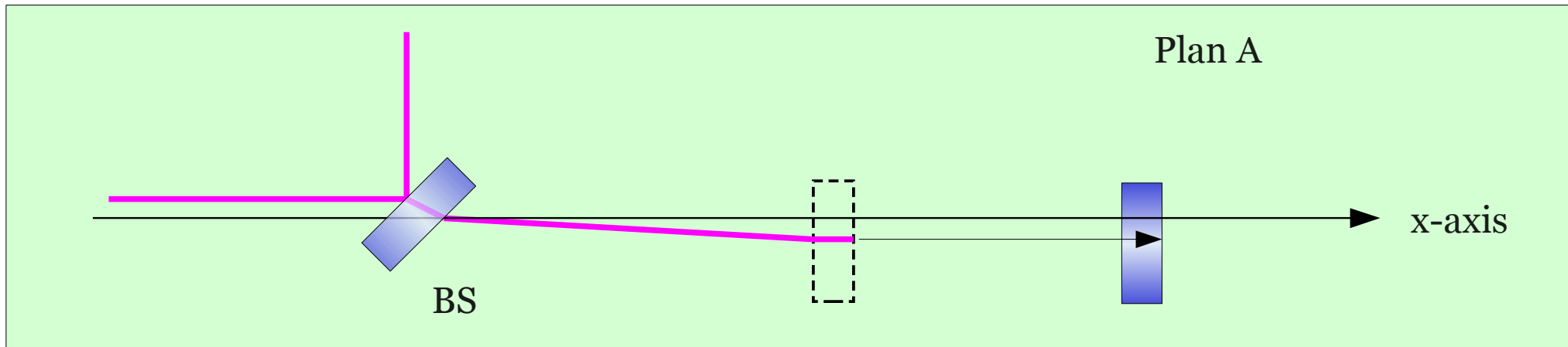
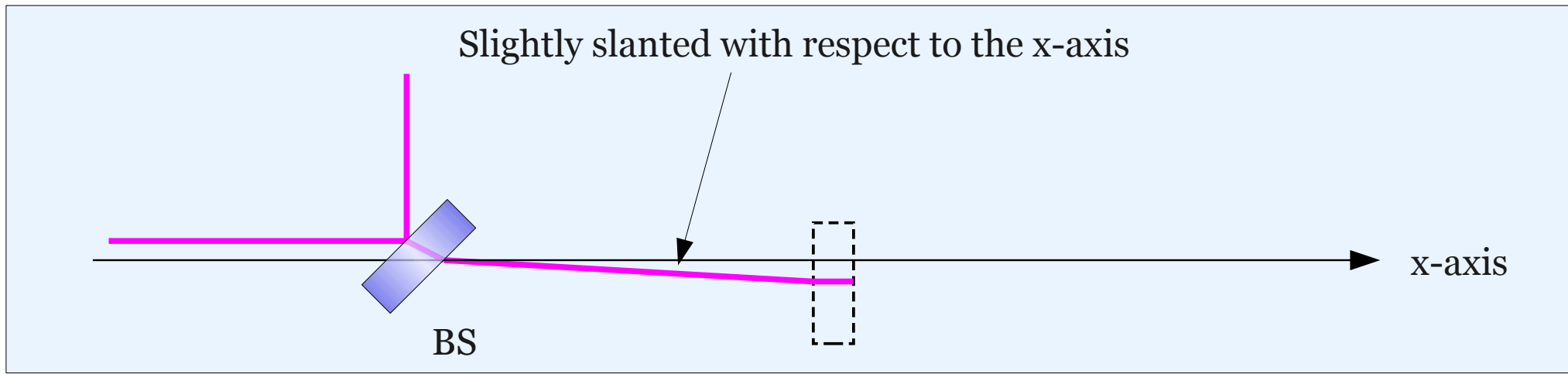


# New ITM locations for iLCGT and its impact on the layout

2011/7/19, Yoichi Aso

Put ITMs 26.6m further away from BS





## Plan A

- Need to rotate PR3 and BS to change the angle of the beams from BS to ITMX and ITMY
- The beam spot on BS will move by 24cm
- Need to move BS by 24 cm
- Not good because BS is suspended by a type-B SAS and we cannot move it between iLCGT and bLCGT.

## Plan B

- The wedge angle of ITMs is adjusted to make the incident angle right.
- The cavity beam axis is off centered by 7cm in the vacuum tube.
- Placing ITMs 7cm offset from the bLCGT cavity axis seems possible because we have a freedom to design such a vacuum chamber.
- POX/POY won't be available.