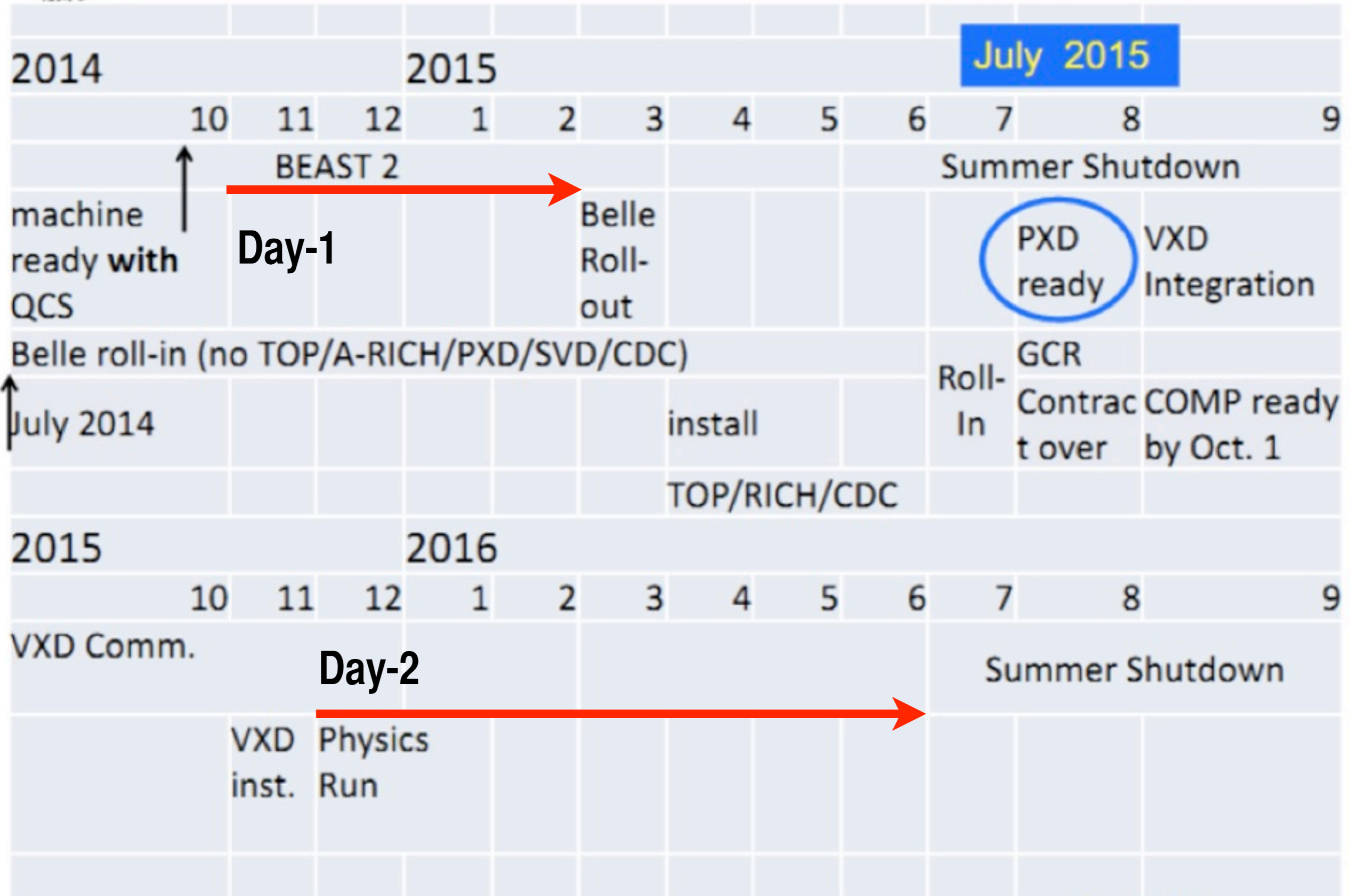




Schedule for Installation: (official: Sept. 15)



Possible Scenario of Day-1

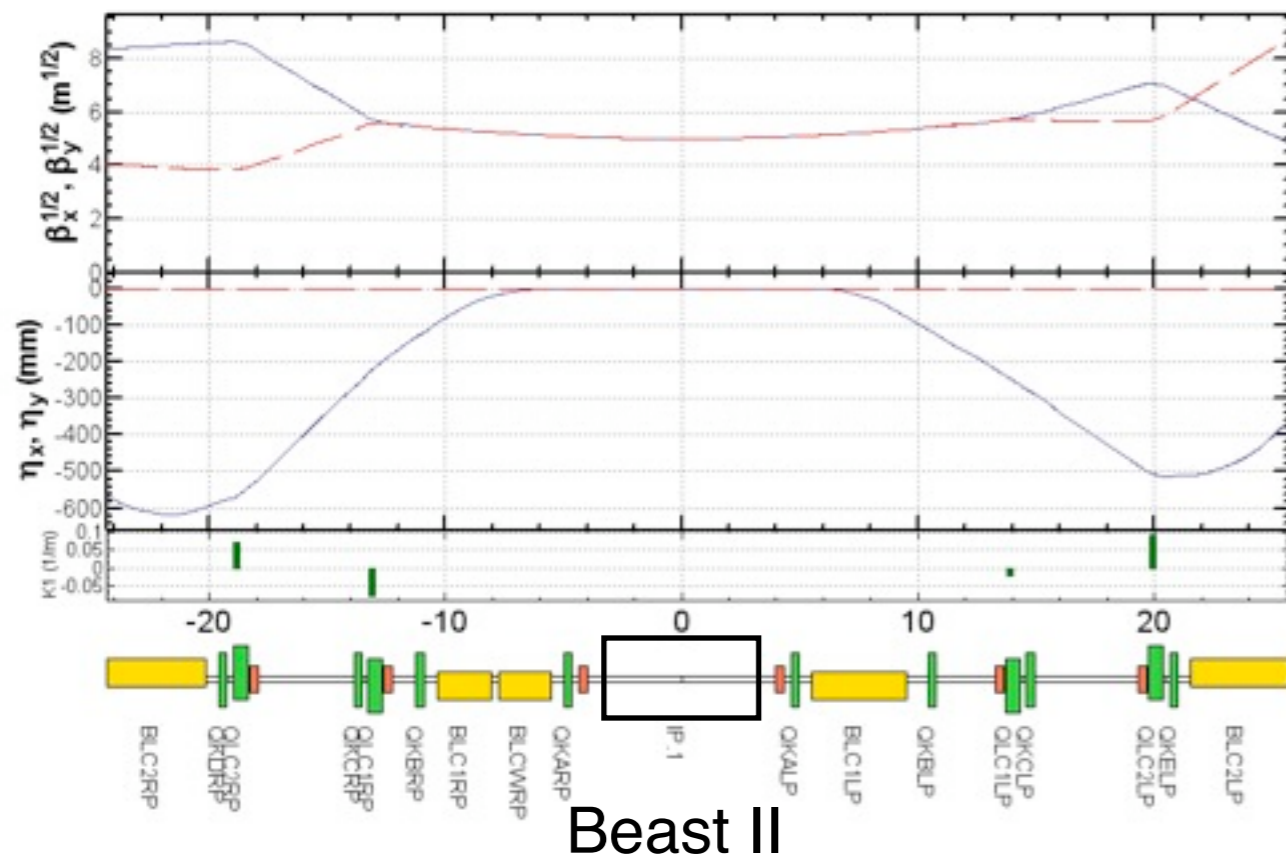
- **No QCS and no solenoid + Beast II**
 - Large aperture beam pipes ($IP < \pm 4$ m), support, and shields.
- Start late 2014 in **FY2014**
- Duration of Phase-1 is 4-5 months (?)
- *Hardware check including abort system, injection tuning, optics tuning, vacuum scrubbing*, R&D of movable mask, (detector background).
- Correction of machine errors, vertical emittance is a critical issue. There is **a benefit to do optics tuning with no QCS and no solenoid**. Machine can be understood step-by-step.
- **Beast II** can study background both injection and **bad vacuum**.
- No luminosity delivered

Good
opportunity !

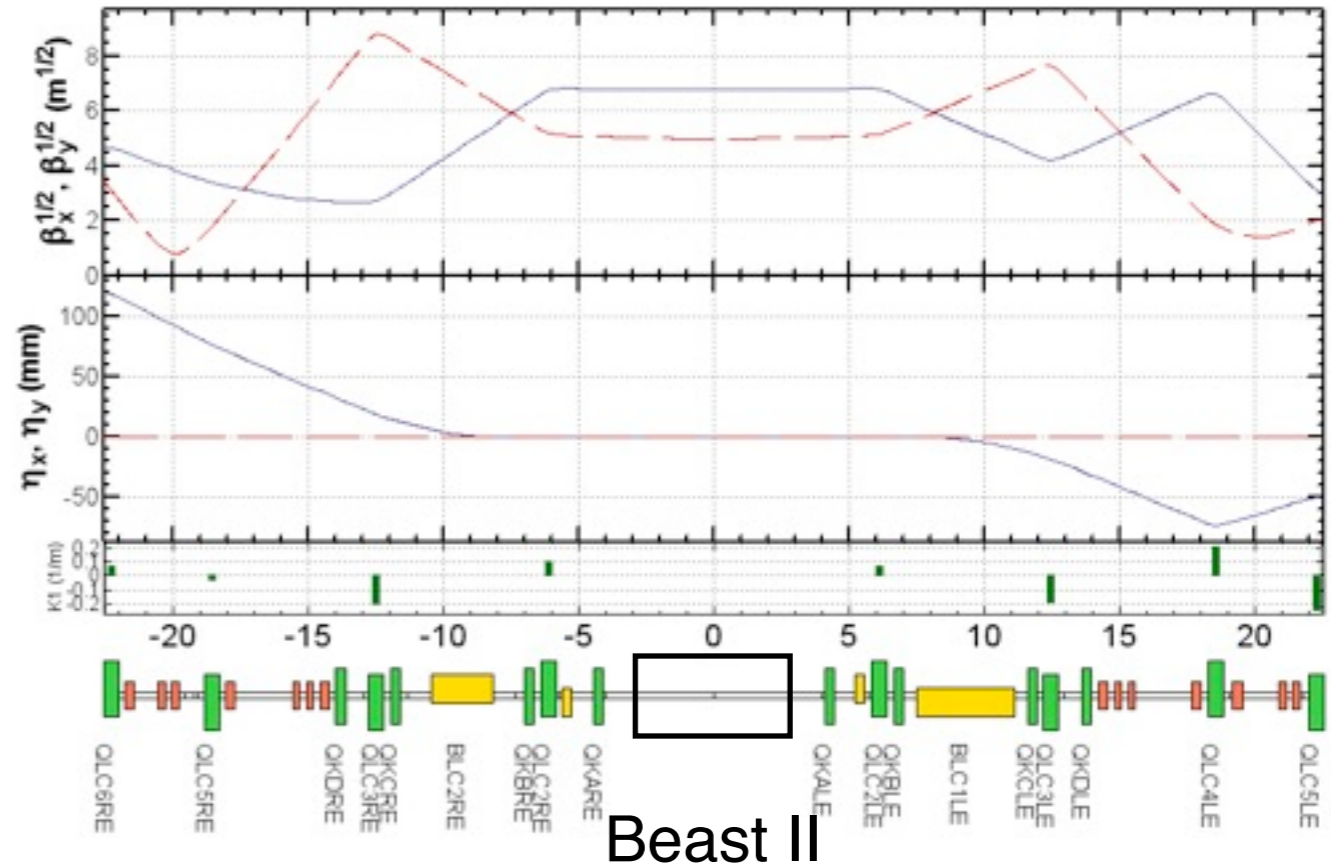
No QCS and No Solenoid

LER

HER



$$\beta_x^* = 25 \text{ m} / \beta_y^* = 25 \text{ m}$$



$$\beta_x^* = 46 \text{ m} / \beta_y^* = 25 \text{ m}$$

No extra magnet is necessary.

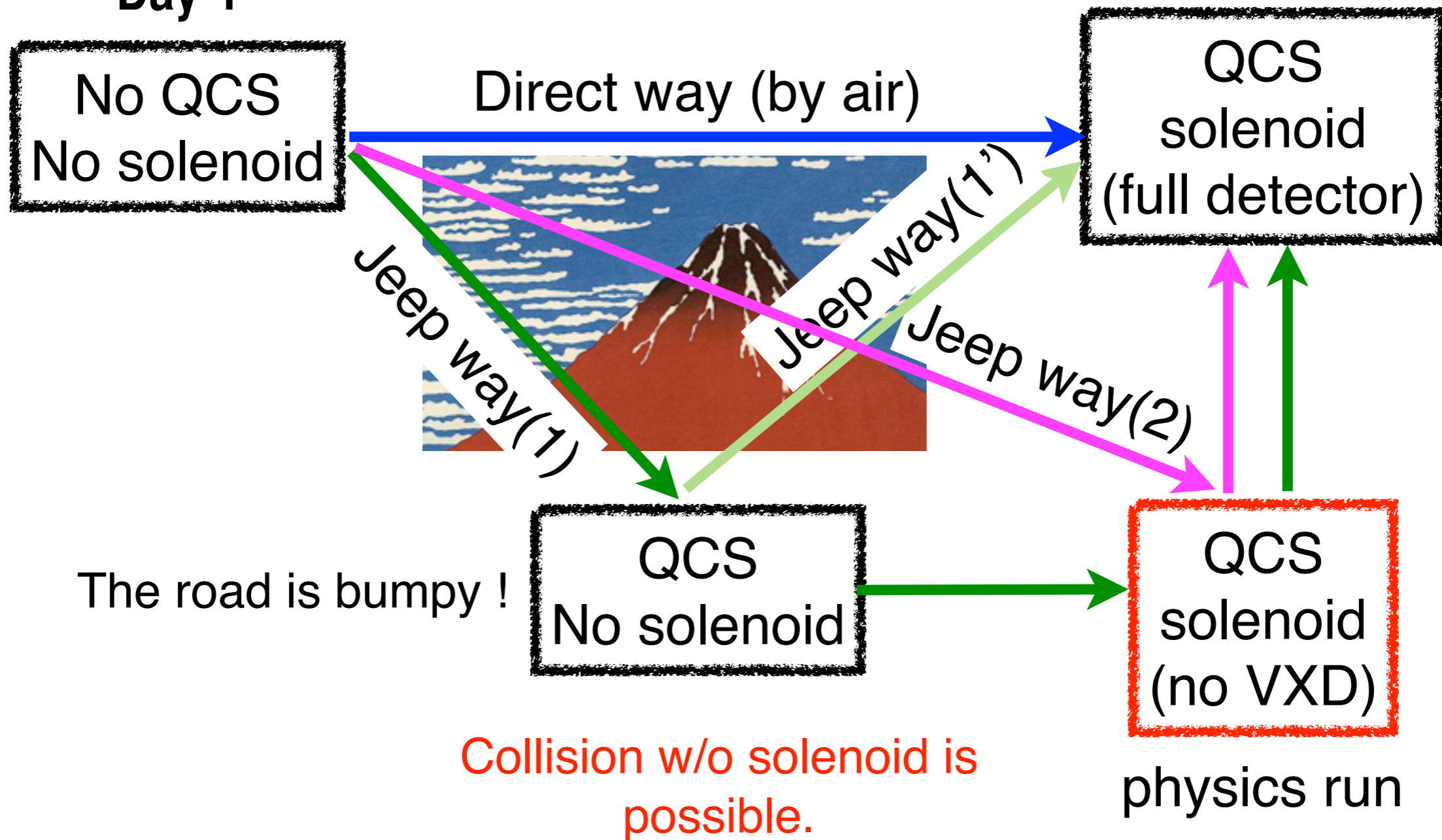
There is no source of vertical emittance. Very simple !

We can identify error sources except for QCS.

Vacuum scrubbing is efficient because of large aperture.

There are four ways to reach the object.

Day-1



If we choose jeep way(1), physics run will be delayed further than jeep way(2).
Accelerator can be prepared for every ways.