## Location of FFD equipment in overpass of MPD

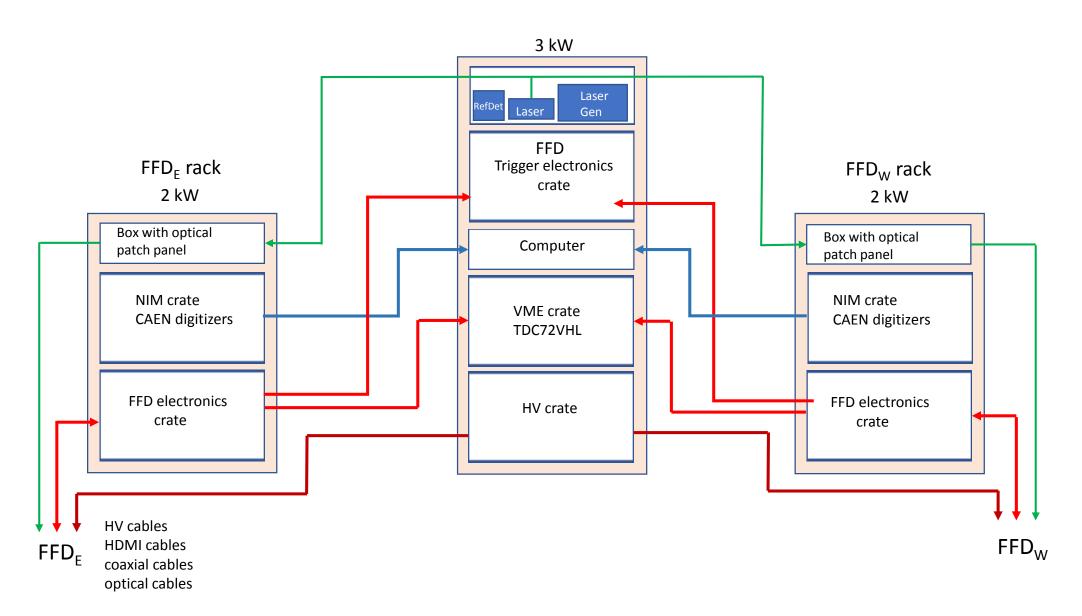
Vladimir Yurevich

The FFD must provide time resolution better than 50 ps

Requirement to the length of signal cables: the shortest as possible

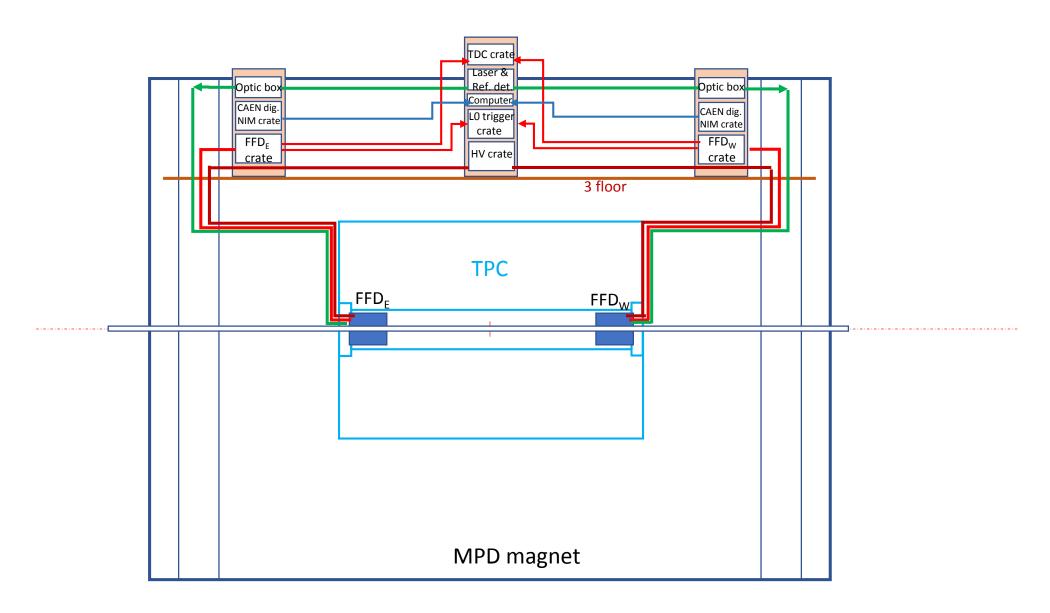
The problem to solve: how to realize this requirement

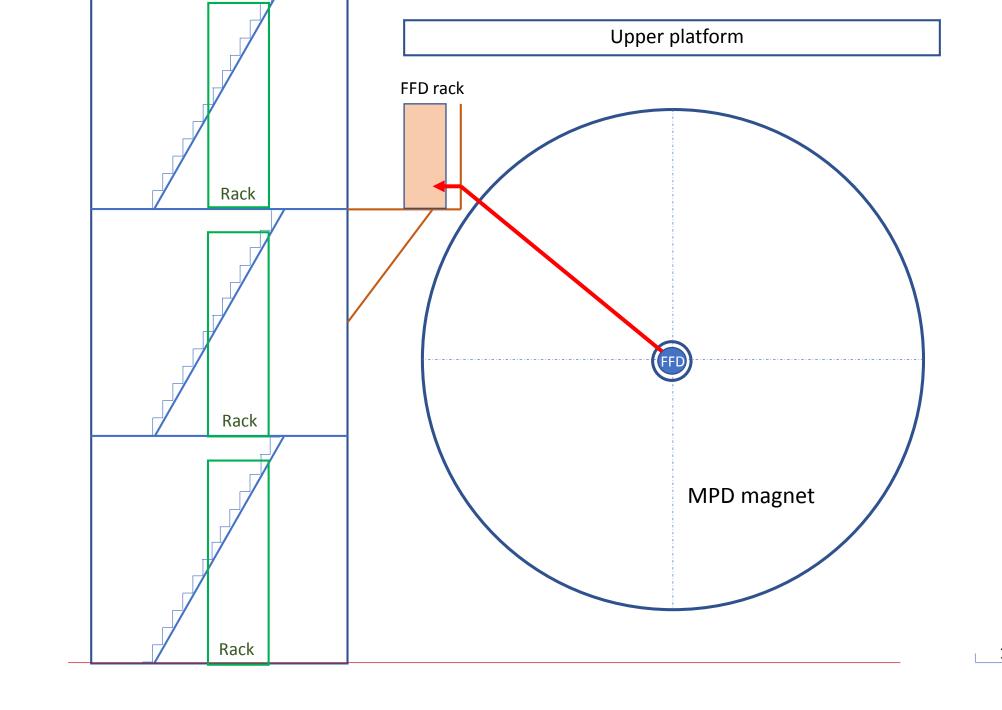
## FFD electronics and equipment



## Cables of each FFD sub-detector FFD modules – FFD electronics

Cable type	Number	L <sub>max</sub>
HV cables	20+2	-
HDMI cables (LVDS pulses + LV/FEE)	20+2	8 m
Coaxial cables (analog pulses)	100+5	10 m
Optical cables	20+5	10 m





Option 1

Option 2 upper platform FFD<sub>E</sub> FFD Trigger Read out  $FFD_W$ Laser electronics electronics Laser pulse HV L0 trigger

to Trigger electronics

## Option 3

