V.Kapin: Telework summary (06Jul-05Aug 2020)

- 0) General activity due to telework, COVID, supplementary (not my subjects) a lot of time! For example, "Preventing Harassment and Discrimination: Non-Supervisors" pass test on 4-Aug
- 1) MADX simulations for new D-magn @extraction (PSP-meeting 30Jul BD-8906)

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Task: reproduce existing trajectories near extraction - at the last "full" turn – extrapolation B38 2Mar -data MADX matching: VARY=Vkicks (Correctors) & CONSTRAINTS Y-BPM(meas) in L01-L04; BPMLU3 = bad!; comparison /[A,MADX] with /[A,ACNET] at several BPMs -> locally perfect!, globally - wrong)

Plans: simulate off-axis orbits & particle losses via multi-particle tracking...
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Study: parasitic - B38 & IPM(L4) data @"known conditions"

- 2) New Booster Collimation Unit in Long 8 (post PDR activity)
 Post PDR meeting by DJ; made 0-version response; Plan: discuss with DJ => further planning (my simulations?)
 Cabling & penetrations: info to Vladimir, Salah, Rick T. (respond from VS via Mike Coburn most cables)
- 3) Understanding and simulating Booster C.O. with MADX
 Learning MADX abilities for CO simulations for 3 my topics: collimators (bumps @ close turns in L06-L08);
 extraction (reproduce trajectories); IPMs (L04) verify C.O. fitting data; Study: new B38 data @"known conds"
 4) Prepare for study tests on "IPM daily meas." (by LV, B78 & ACL by B.H + B38) wait beam
 5) Simulations for RIL (discussion with Kiyomi 06/30, postponed for Aug)
- 6) CST based simulations for IPM to verify Shiltsev's formulae (postponed) after-ACL (not B78, not LabView)