KURNS meeting 1. April. 2021

Progress of BPM and WSM developments

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prototype BPM progress

- Coherent tune shifts due to beam coupling impedance when the BPM is installed at KURNS main ring is currently studied. The results will be presented at next meeting.
- * The screws of prototype BPM has not been changed due to COVID contact cases. This will be done by end of next month.
- After the modification, BPM features will be remeasured to confirm position sensitivities. After some electrical components test, we will ship the prototype BPM and electronics (RF amplifiers, cables etc) to KURNS. Hopefully it will be by this Autumn.

WSM progress

- We decided to purchase φ10 um and φ30 um CNT wires from Hitachi Zosen Cooperation (JP). But they do not provide another sample of CNTs to ISIS.
- We will have a technical (design) support from ISIS mechanical division officially to design prototype WSM frame. To improve the design properly, we would like to get more information about CNTs.
- * Hitachi Zosen prefers to talk to ISIS mechanical team after we decide to procure. The date of shipping of the CNTs are within 3 month after receipt of written order.
- Currently I am working on WSM profile simulation with angle errors on the wire, that is to evaluate tolerance of wire positioning.





