

Group B: Pulse Picking by Resonant Excitation

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A few guiding questions for the Group Discussion and Summary on Pulse Picking by Resonant Excitation

- Are the other users affected by a larger emittance in one bunch?
- How can the emittance blowup of the single bunch be measured and controlled (considering most beam size measurements are multibunch measurements)
- Are there other suitable methods to excite the bunch than the multibunch feedback kicker used at BESSY? Is there a method that could be applied to a bunch within the multibunch fill pattern (i.e. w/o gap)
- What would be required to implement such a solution at the MAX IV rings? Is one ring clearly more suitable than the other for this solution? If so, is this motivated by the science case or technical issue on the machine side?
- How could the emittance growth in one bunch be simulated?
- How is the intensity affected by the ID? Can the ID be optimized for the method?