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Some Thoughts on the Advanced Photon Source Upgrade (APS-U) 352MHz RF System

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Summary

A hybrid seven-bend achromat lattice is designed for the APS-U multi-bend achromat (MBA) which will require a bunch-lengthening cavity to mitigate the effects of Touschek scattering on the beam lifetime. Accommodating MBA lattice in the existing APS storage ring tunnel will require reconfiguration of the present storage ring rf system. We will describe various potential RF system configurations.

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