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Problems and Considerations about the Injection Philosophy and Timing Structure for CEPC

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In this paper we will show the injection philosophy and the design of timing and filling scheme for high luminosity CEPC scheme under different energy modes. It is found that the RF frequency choice in CDR cannot meet the injection requirements for the bunch number at Z pole. A modified scheme was proposed to support the design luminosity, which basically meets our current design requirements and retains more flexibility for future high luminosity upgrade.

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Footnotes

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Yes

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