

# Topical Workshop on Diagnostics for Ultra-Low Emittance Rings (TW-DULER)



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## BPM for Co-Propagating Beams

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There are proposals to utilize the energy recovery linac (ERL) as driver for the light sources with ultra-low emittance. The ERLs have co-propagating beams inside the same vacuum vessel. These beams can have different trajectories, which should be distinguished by beam position monitors (BPM). In this paper we present a concept of a BPM utilizing the phase information for calculation individual position of each of the two beams (accelerating and decelerating). The practical realizations are presented and achievable accuracy is estimated.

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