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Factors that influence the timing properties and rate capability of Multigap Resistive Plate Chambers

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The Multigap Resistive Plate Chamber (MRPC) is now the timing device of choice especially when large area coverage is required. In this presentation I will cover the factors that are important to generate excellent timing. Related to this is the growth of the avalanche within the gas gap: measurements of the total charge observed in the MRPC will be presented. Front-end electronics plays an important role for optimal timing and various techniques currently in use will be considered

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