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Study and development of an innovative device from high performance measures

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The WRM (Weighting Resistive Matrix) is a conceptually simple device born for triggering tracks from beam-beam interaction experiments. Cause of its passive nature, is possible to perform track recognition with a time transition in about 10ns from digital inputs. The study and development of this device has brought to a theorization of a WRM able to elaborate analog inputs with highest measuring performance, not necessary restricted to beam-beam experiments. More general studies are involving connectivity topology logic in the device, that could be the key for understand more general applications of it.

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