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## Dilepton production in Relativistic heavy ion collisions

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Dilepton production plays a very important role to study hot and dense matter in relativistic heavy ion production.

At HADES or JPARC energies in pion induced dilepton production the interference between the dileptons stemming from intermediate rho and omega helps to study the propagation of the omega meson in dense matter, furthermore, we can study how the coherence is lost in strongly interacting environment.

In heavy ion collisions the low mass dileptons provide us information about the in-medium properties of vector mesons.

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