Understanding jet quenching and medium response via dihadron correlations

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Early RHIC results form Au+Au collisions suggest that the jets are quenched by the dense medium and their energy are subsequently dissipated to lower p_T hadrons. A deeper understanding this jet-medium interaction dynamics is now feasible with the recent detailed study of the p_T and PID dependence of the dihadron correlations from STAR and PHENIX. I will discuss the trigger p_T and partner p_T landscape of the dihadron correlations, focusing on the reciprocal relation between jet quenching at high p_T and jet enhancement at low p_T. This can help to understand how the jet-induced signal is propagated to low p_T hadrons and to quantify the role of jets at the low p_T region, where the particle production was believed to be dominated by the soft processes such as hydrodynamical flow and recombination.