

## XIX Meeting of Physics 2020



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# The sound horizon scale at baryon drag epoch

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We show different forms to calculate the sound horizon scale at baryon drag epoch,  $r_{drag}$ , a physical parameter considered a cosmological standard ruler. This important parameter supports recent studies of the large-scale structure of the Universe, including the dynamics of its evolution. For this, one of the aims of current astronomical surveys is to know this parameter with high precision. Here we make explicit the way this parameter is calculated in the literature using cosmological parameters and assuming LCDM cosmological model hypotheses. Finally, we show how it can be calculated using data measured within a weakly cosmological-dependent approach.

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