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The role of dust in the star-formation and galaxy evolution, and its characteristic scaling relations

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Interstellar dust, a processor of stellar radiation, a gas coolant and a good interstellar medium (ISM) tracer, is formed out of elements mostly forged in stars. Its precise composition, grain size and distribution are essential for the galaxy attenuation curves, for the stellar or dust evolution models. Likewise, dust and star formation scaling relations are essential in studies of ISM evolution, in star formation and galaxy evolution studies, and in studies related to the duty cycle of dust and gas in galaxies. I will show this through recent results from a detailed study of these relations done on a representative sample of galaxies from the nearby Universe.

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