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## PROSA PDFs and astrophysical applications

The PROSA parton distribution function fit was the first one appeared in the literature incorporating data on open charm and open bottom hadroproduction at LHCb, in order to reduce the uncertainties on gluons and sea quarks at low  $x$ 's ( $x < 10^{-4}$ ).

We will present recent developments of the PROSA PDFs, of particular relevance for their usage in the field of Neutrino Astronomy, and their application in the computation of key quantities for the analyses of high-energy data at Very Large Volume Neutrino Telescopes.

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