

Publication list

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- Jun. 2020 Pablo Villanueva-Domingo and Francisco Villaescusa-Navarro.
Removing Astrophysics in 21 cm maps with Neural Networks.
[arXiv:2006.14305](#) (submitted to *ApJ*)
- Apr. 2020 Pablo Villanueva-Domingo, Olga Mena and Jordi Miralda-Escudé.
Maximum amplitude of the high-redshift 21-cm absorption feature.
[Phys. Rev. D101\(8\):083502, 2020.](#)
- Aug. 2019 Olga Mena, Sergio Palomares-Ruiz, Pablo Villanueva-Domingo, and Samuel J. Witte.
Constraining the primordial black hole abundance with 21-cm cosmology.
[Phys. Rev., D100\(4\):043540, 2019.](#)
- Jan. 2019 Laura Lopez-Honorez, Olga Mena and Pablo Villanueva-Domingo.
Dark Matter microphysics and 21 cm observations.
[Phys. Rev., D99\(2\):023522, 2019.](#)
- Jun. 2018 Miguel Escudero, Laura Lopez-Honorez, Olga Mena, Sergio Palomares-Ruiz and Pablo Villanueva-Domingo.
A fresh look into the interacting dark matter scenario.
[JCAP, 1806\(06\):007, 2018.](#)
- May 2018 Samuel Witte, Pablo Villanueva-Domingo, Stefano Gariazzo, Olga Mena and Sergio Palomares-Ruiz.
EDGES result versus CMB and low-redshift constraints on ionization histories.
[Phys. Rev., D97\(10\):103533, 2018.](#)
- Apr. 2018 Pablo Villanueva-Domingo, Stefano Gariazzo, Nickolay Y. Gnedin and Olga Mena.
Was there an early reionization component in our universe?
[JCAP, 1804\(04\):024, 2018.](#)
- Jan. 2018 Pablo Villanueva-Domingo, Nickolay Y. Gnedin, and Olga Mena.
Warm Dark Matter and Cosmic Reionization.
[Astrophys. J., 852\(2\):139, 2018](#)
- Nov. 2017 Laura Lopez-Honorez, Olga Mena, Sergio Palomares-Ruiz and Pablo Villanueva-Domingo.
Warm dark matter and the ionization history of the Universe.
[Phys. Rev., D96\(10\):103539, 2017.](#)