Վահագն Գրիգորի Գուրզադյան

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Մաթեմատիկական և կիրառական հետազոտություններ կենտրոն
Կոսմոլոգիայի կենտրոն
Լաբորատորիայի վարիչ

Մաթեմատիկայի և մեխանիկայի ֆակուլտետ

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The European Physical Journal C 2019 872

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Astronomy and Astrophysics 2019 A87

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Satellite Laser-Ranging as a Probe of Fundamental Physics
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Scientific Reports 2019 15881

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Machine learning and Kolmogorov analysis to reveal gravitational lenses
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Monthly Notices of the Royal Astronomical Society 2019 L32

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H_0 tension: clue to common nature of dark sector?
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