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Wednesday, March 04, 2015



News

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New data helps astronomer	s unravel mystery of Dark Ma	utter's nature
Washington March 04, 201	5 12:01:13 AM IST	
		e of the Dark Matter, which amounts to more than 80 percent of vided by its gravitational effects.
		have used stars as particle physics labs: thanks to the high at escape to the exterior, carrying energy with them.
so called HB (Horizontal B		antly diminish the time for the central combustion of helium, the ken by axions was compensated with the energy provided by nption of helium.
observations conducted in the amount of stars watched	his project with the actual dat	sters allows for the contrast between the results of the numerical a. By comparing the amount of stars observed in HB phase with acted by axions (such as the so called RGB, Red Giant Branch, m axion emission rate.
axion and photons. They I		g of axion-photon which characterizes the interaction between limit for this constant which was more restrictive than those nents.
		racy in the determination of the coupling constant through the hich the initial helium content within the stars in the globular
The study is published in the	e journal Physical Review Let	ters. (ANI)
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