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Correlating the Hot Spot in UHECR rays with its possible source

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UHECR (Ultra High Energy Cosmic Rays) are reaching a large sample of events both in the South (by AUGER) and recently also in the North terrestrial hemisphere (by TA, Terrestrial Array Telescope). The latter events are showing an apparent wide Hot Spot clustering toward an unexpected area of the sky. Some tentative correlation with Ursa Major Cluster has been offered: however the remarkable absence of the much larger nearby Virgo cluster call for a deeper and more convincing explanation. We will show that our proposal based on lightest nuclei model may solve the present Hot Spot presence and Virgo absence. A similar successful model has been considered since 2008 to explain the mysterious Cen A spread clustering in AUGER data.

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