

Sixteenth Marcel Grossmann Meeting



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On Einstein's last bid to keep a stationary cosmology

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It is commonly known that the Steady-state model was proposed and championed in a series of Influential papers around mid-twenty century by Fred Hoyle, Hermann Bondi and Thomas Gold. In contrast it is little known that, many years before, Albert Einstein briefly explored the same idea, that is of a dynamic steady state universe. Einstein tried to develop a model where the universe expanded and where matter was supposed to be continuously created. This latter process was proposed by him to keep the matter density of the Universe constant. However, Einstein shortly abandoned the idea. The whole event has already been pointed out by Cormac O'Raifeartaigh et al. in 2014 and almost simultaneously by al Harry Nussbaumer.

It is the purpose of this brief note to point out who might have prompted Einstein to consider a continuous creation of matter and the prevailing circumstances at that time that drove Einstein's intent.

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