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On the mechanisms of the quasi-biennial oscillations in the GCR intensity

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Quasi-biennial oscillation (QBO) is a well-known quasi-periodical variation with characteristic time 0.5-4 years in different solar, heliospheric and cosmic ray characteristics. Recently it has been shown that there is rather high anticorrelation between the QBOs in GCR intensity near the Earth and in the strength of the heliospheric magnetic field. Besides, it was suggested that both step-like changes of the GCR intensity and Gnevyshev Gap effect (a temporal damping of the solar modulation around the sunspot maxima) could be viewed as the manifestations of QBO.

In this paper we add some features to the phenomenological study of the QBOs and then, using rather simple numerical models, consider the mechanisms of their formation.

Collaboration

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215

Primary author: KRAINEV, Mikhail (Lebedev Physical Institute, Moscow, Russia)

Co-authors: Dr SVIRZHEVSKAYA, Albina (Lebedev Physical Institute RAS, Moscow, Russia); Prof. BAZILEVSKAYA, Galina (Lebedev Physical Institute RAS, Moscow, Russia); Dr KALININ, Mikhail (Lebedev Physical Institute RAS, Moscow, Russia); Dr SVIRZHEVSKY, Nikolai (Lebedev Physical Institute RAS, Moscow, Russia)

Presenter: KRAINEV, Mikhail (Lebedev Physical Institute, Moscow, Russia)

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