

## عنوان مقاله:

Role of fractional derivative order in a model for the spread of HIV/AIDS epidemic

# محل انتشار:

اولين همايش ملَّى رياضيات زيستى (سال: 1397)

تعداد صفحات اصل مقاله: 5

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### خلاصه مقاله:

In this paper, we present a fractional model for transmission dynamics of HIV/AIDS with screening, and investigate the e cacy of the fractional derivative order (0:6 < 1) on the spread of HIV/AIDS epidemic using the Adams type predictor-corrector method. The numerical results show that the derivative order can play the role of precautions .against infection transmission, treatment of infection and delay in accepting HIV testing

**کلمات کلیدی:** Fractional calculus, HIV/AIDS epidemic, Numerical simulation

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