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Analysis of onset of bio-thermal convection in a fluid containing gravitactic microorganisms by the energy method

Shivani Saini, Y.D. Sharma

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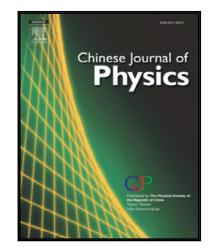
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HIGHLIGHTS

- The bio-thermal convection in suspension of gravitactic microorganisms is studied.
- Linear and nonlinear stability theories are used.
- Energy method is used for nonlinear stability theory.
- The speed and concentration of microorganisms increase the size of cell.

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