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Convective heat transfer of micropolar fluid in a horizontal wavy channel under the local heating

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Highlights

- Mixed convection of micropolar fluid in a horizontal wavy channel is analyzed.
- The finite difference method is used to solve the governing equations.
- Rayleigh number defines a dominance of natural convection regime with a formation of recirculation along the upper wall.
- An appearance of vortices depends on the location of the heater inside the channel.

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