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Macroscopic characteristics of heavy particle resuspension obtained from direct numerical simulations of pressure driven channel flow

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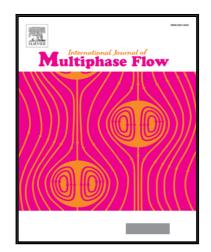
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Highlights

- Direct numerical simulations of particle resuspension in channel flow are performed.
- Onset of resuspension and particle flux vs. Shields number are close to experiments.
- Particle phase stresses are obtained on the basis of integral momentum balances.



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