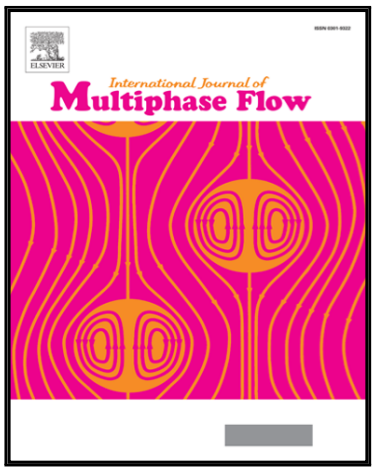

Experimental and numerical investigation of the primary breakup of an airblasted liquid sheet

K. Warncke, S. Gepperth, B. Sauer, A. Sadiki, J. Janicka, R. Koch, H.-J. Bauer

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Highlights

- Identical breakup phenomena are observed in experiment and simulation
- Ligament and bag formation in the vicinity of the atomizing edge
- Efficient characterization of the liquid sheet by tracking the phase interface
- 3D-DNS data is analyzed as seen from the top corresponding to shadow images
- Droplet size distributions provided by eDNS are in good agreement with the experiment