**Motivation:**
- Entrainment reduction (phase slip) in distillation and absorption columns
- Adverse back mixing of heavy and lighter volatiles
- Relevant to product quality and costs

**Objective:**
- Investigation of entrainment at column top. Column configuration above different trays and packings (structured and random).
- Optical Multimode Online Probe (OMOP) development sharpens insight in industrial conditions.

**Results**
- Droplet size decreases with increasing volume flow rate
- PDA and OMOP idem

**Outlook**
- Entrainment quantification with capture tray / demister
- Estimation of entrainment with OMOP and comparison with existing correlations

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**References:**
[2] Raschig GmbH; raschig.de/tropfenabscheidung-de.php