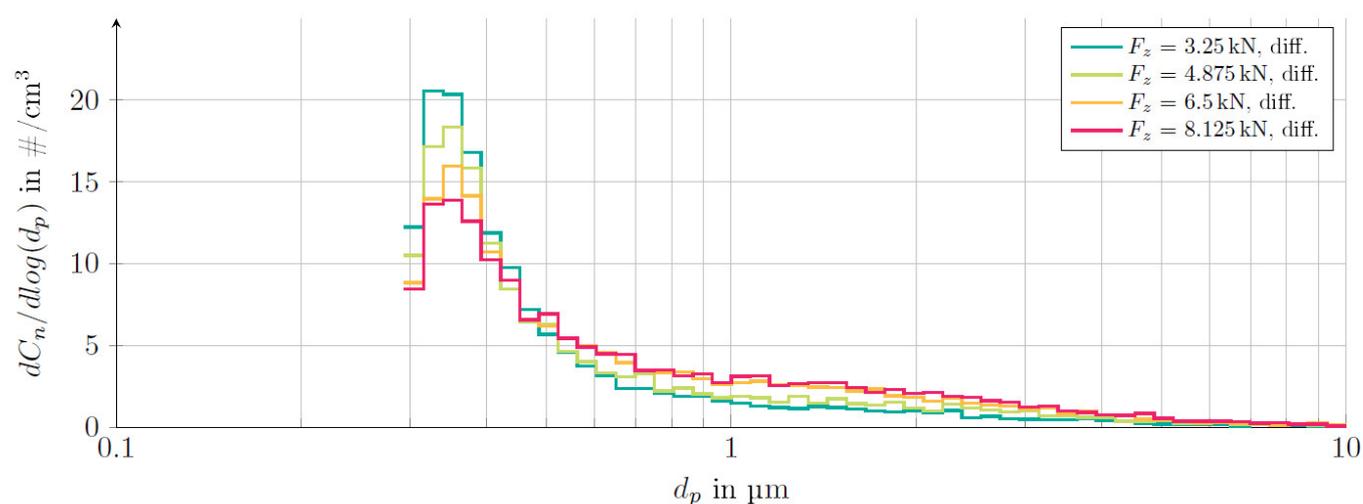


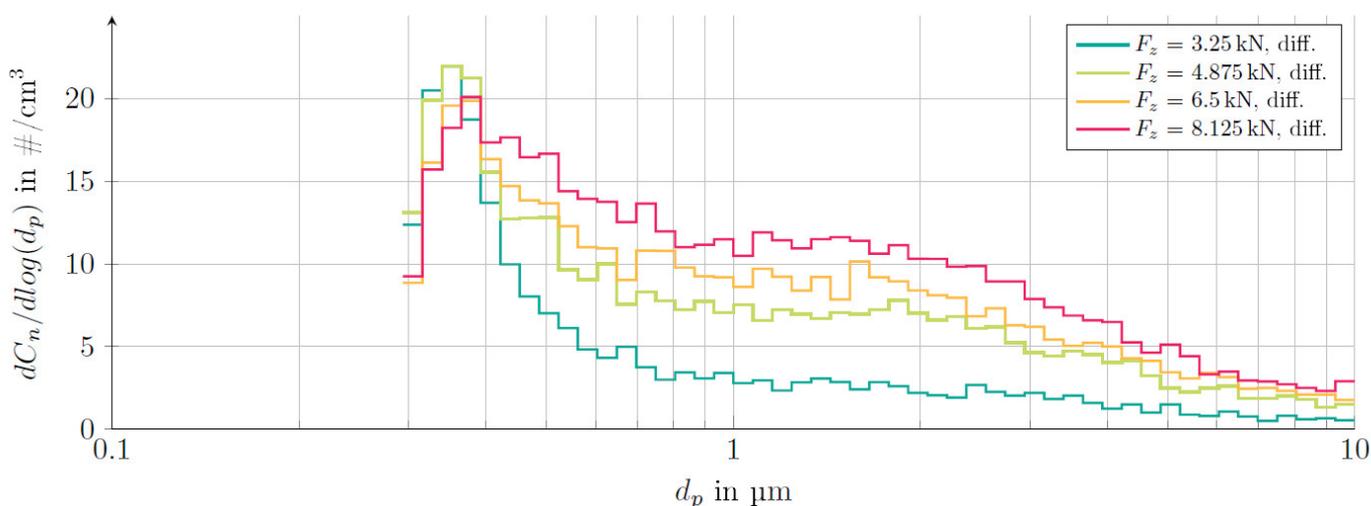
Supplementary Materials

Influence of Vertical Load, Inflation Pressure, and Driving Speed on the Emission of Tire–Road Particulate Matter and its Size Distribution

Stefan Schläfle, Meng Zhang, Hans-Joachim Unrau and Frank Gauterin



(a) Free rolling



(b) Adhesion utilization $F_x/F_z = 0.62$

Figure S1. Influence of vertical load on the particle number distribution at different load conditions in non-normalized view.

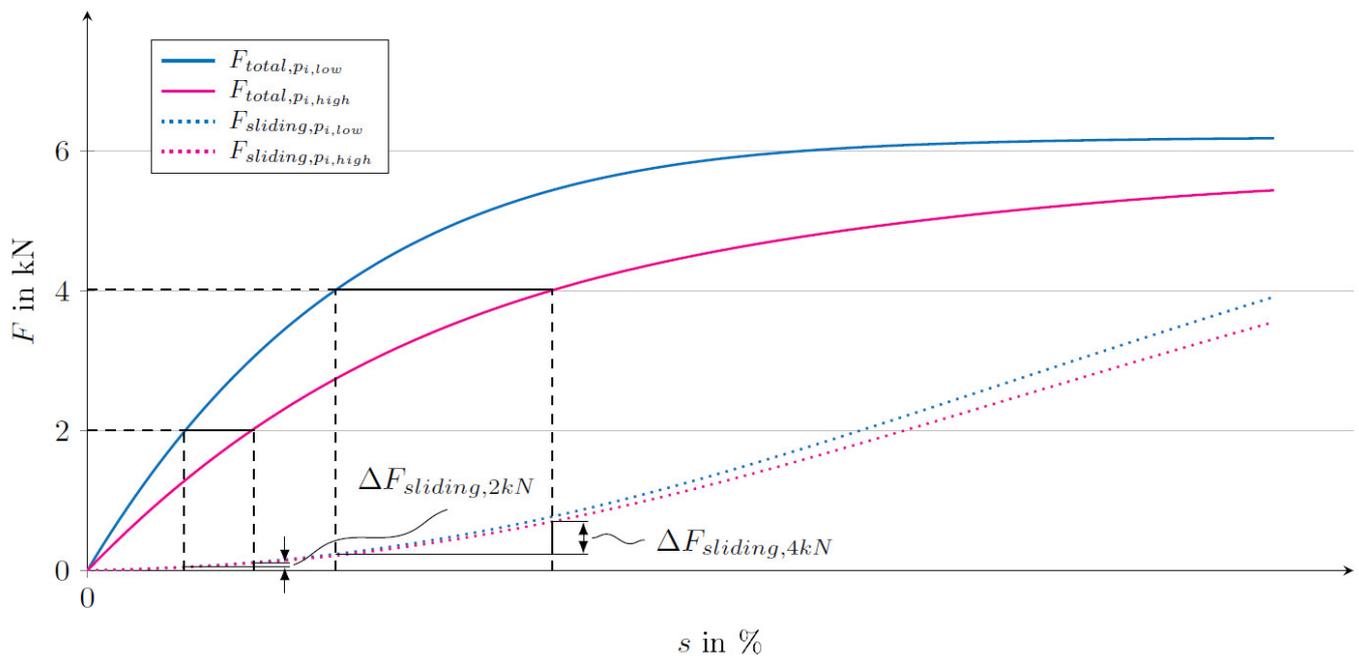
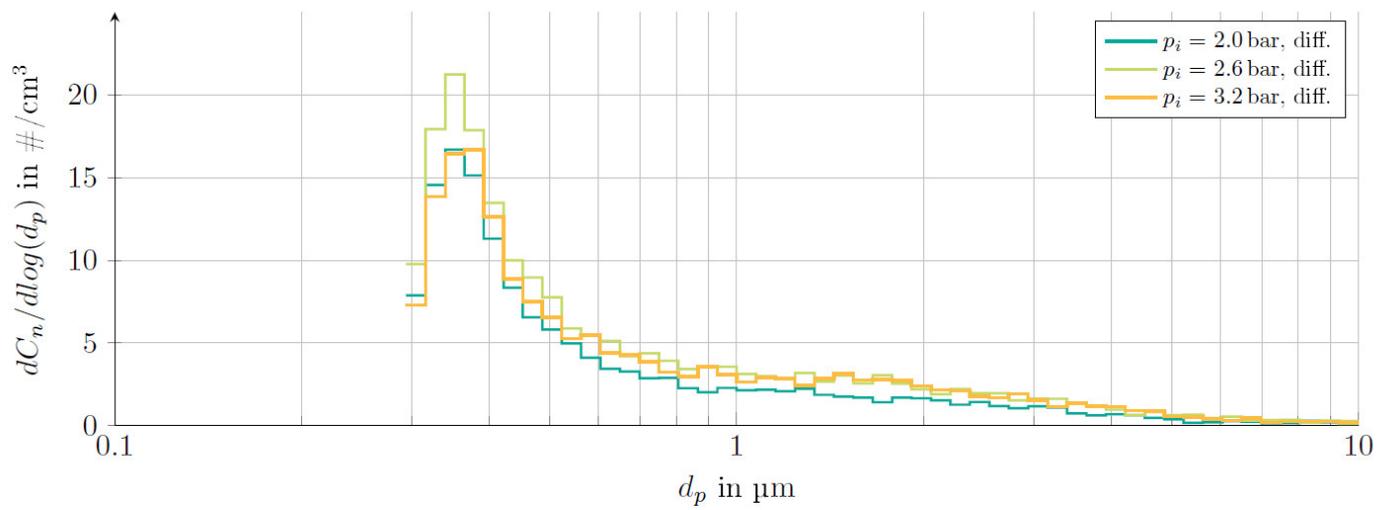
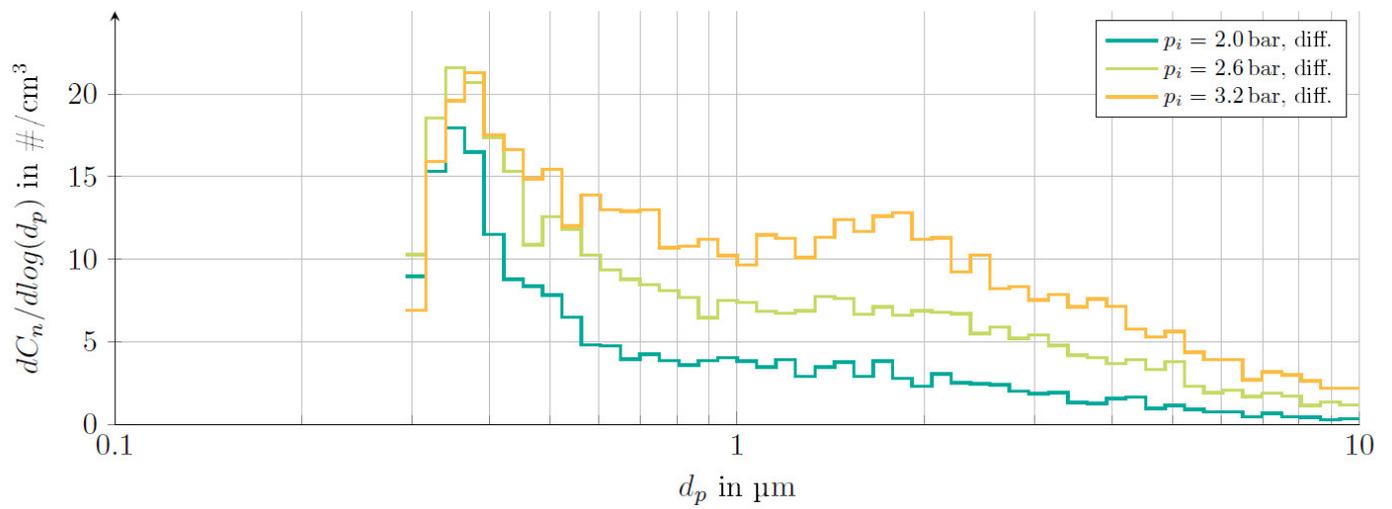


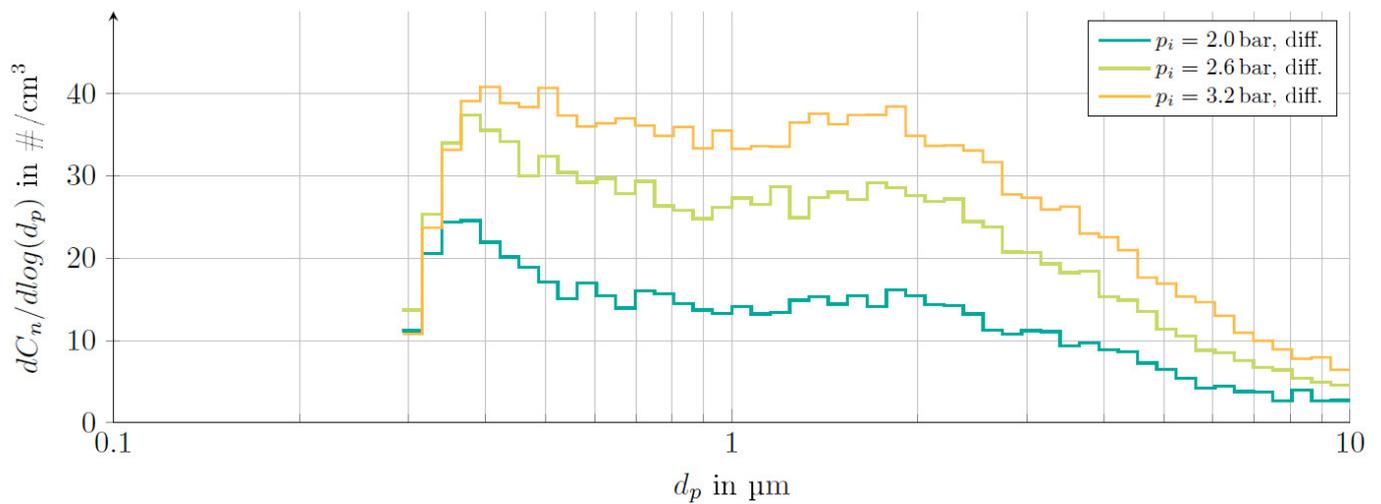
Figure S2. Total tire force and proportion of force due to gliding slip as a function of slip for two different tire inflation pressures.



(a) Free rolling

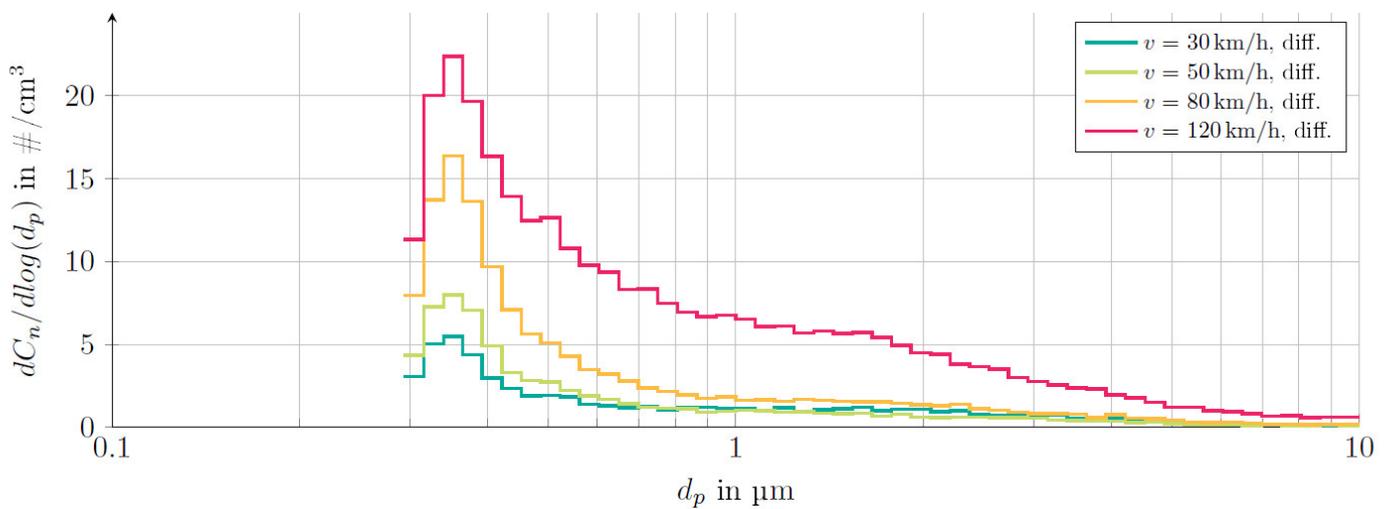


(b) Longitudinal force $F_x = 4 \text{ kN}$



(c) Lateral force $F_y = 4 \text{ kN}$

Figure S3. Influence of tire inflation pressure on the particle number distribution at different load conditions in non-normalized view.



(a) Free rolling

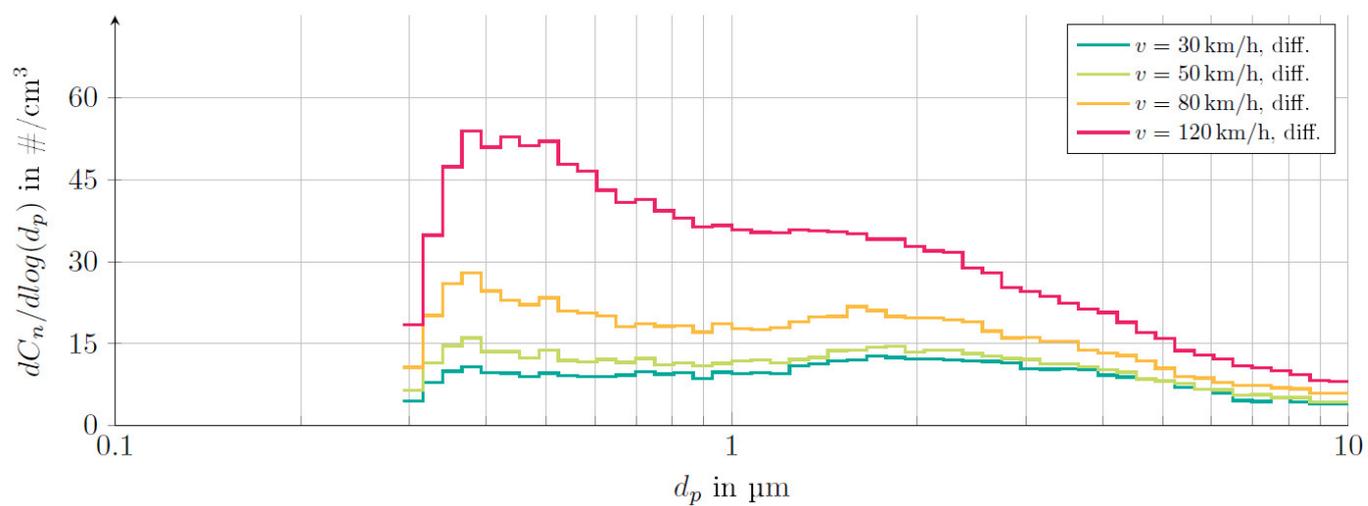
(b) Lateral force $F_y = 4$ kN

Figure S4. Influence of driving speed on the particle number distribution at different load conditions in non-normalized view.