

# Aggregation of EVs

## Shear Stress Experiments @ ETH

|                    |  |
|--------------------|--|
| Rotational speed:  | 300 rpm (shear rate $\sim 1300 \text{ s}^{-1}$ ) |
| Experimental time: | 20 min   |
| Materials:         | PMMA & Stainless Steel                           |

To minimize sample consumption, the same EV sample was measured:

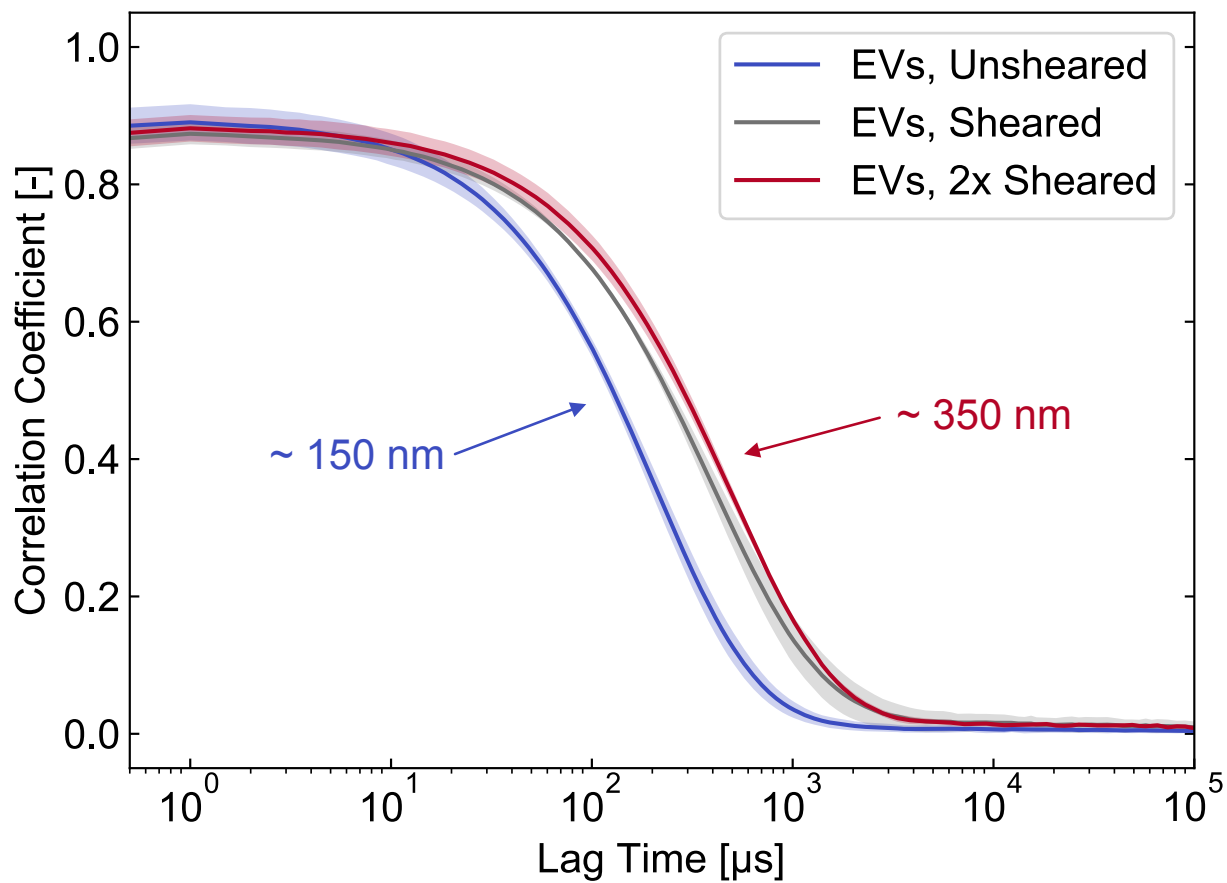
1. Before application of shear (= EVs, Unsheared)
2. After first shear experiment (= EVs, Sheared)
3. After a second shear experiment (= EVs, 2x Sheared)

DLS results are averaged duplicates, NTA are single measurements.

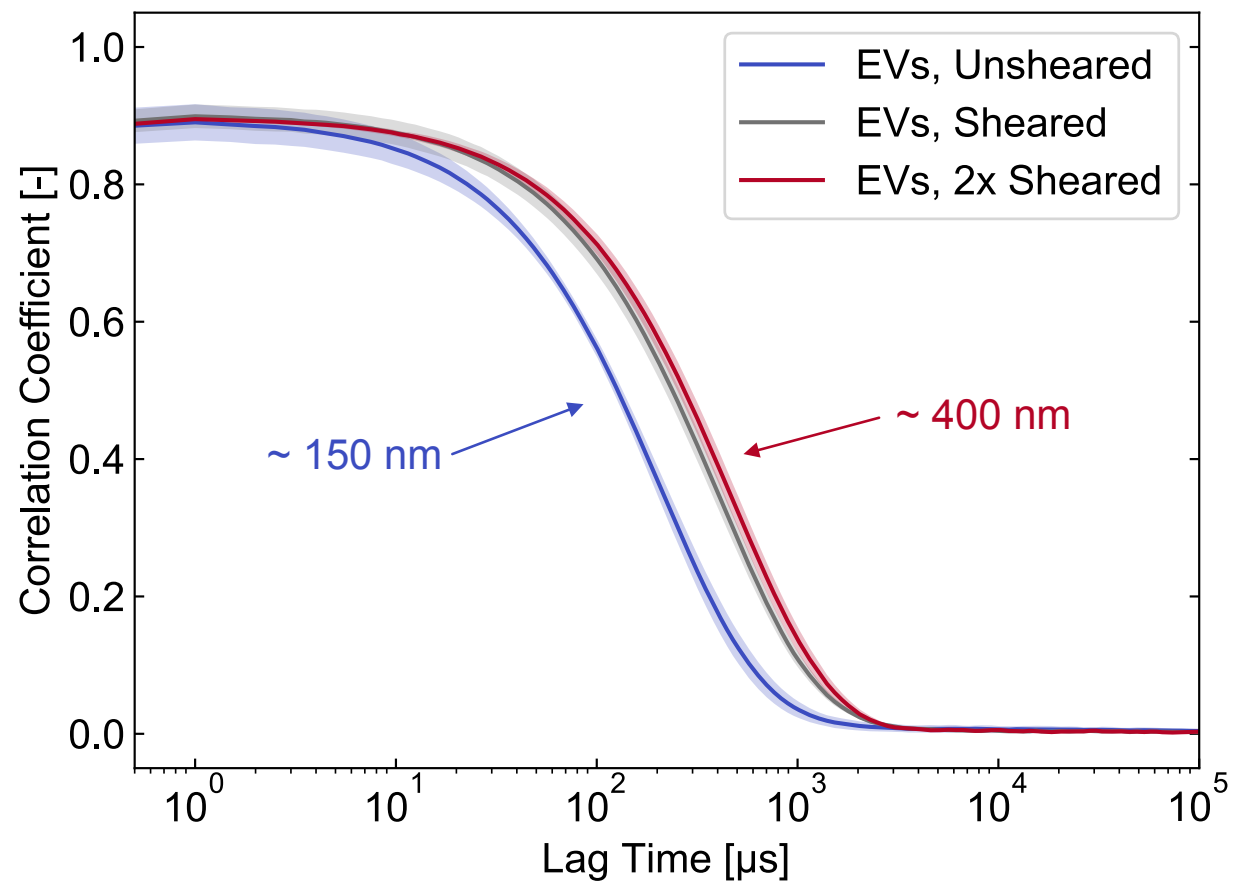
# Aggregation of EVs

## DLS Results

EVs, PMMA



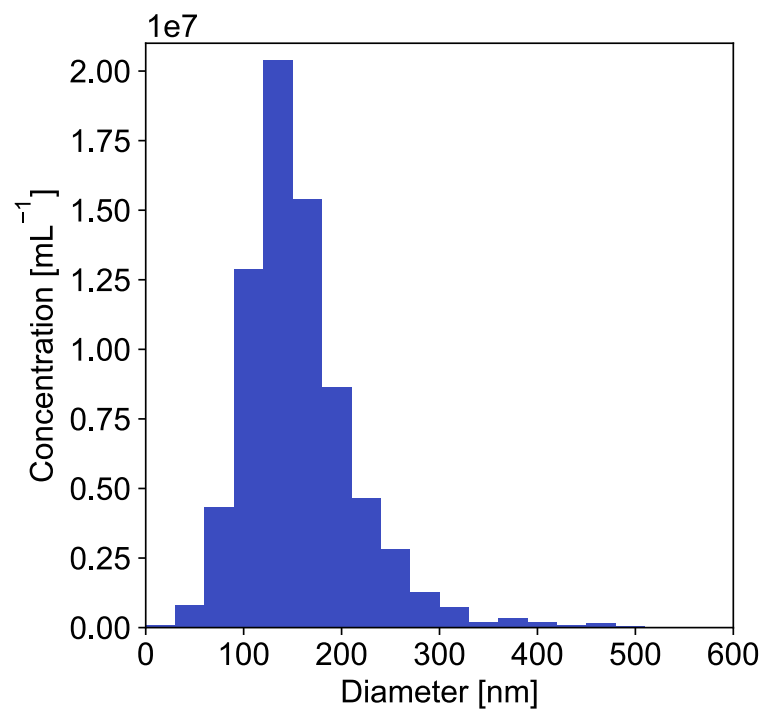
EVs, Steel



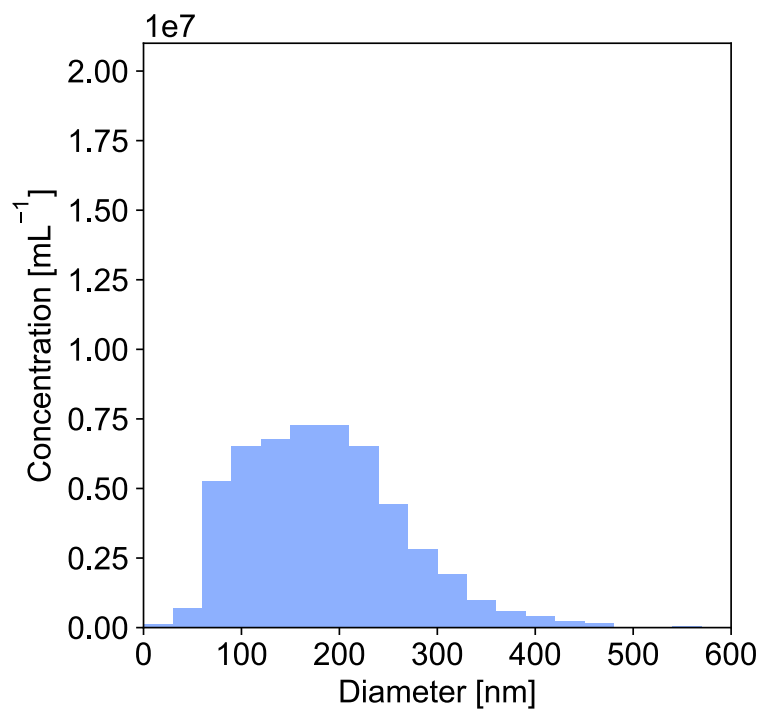
# Aggregation of EVs

## NTA Results

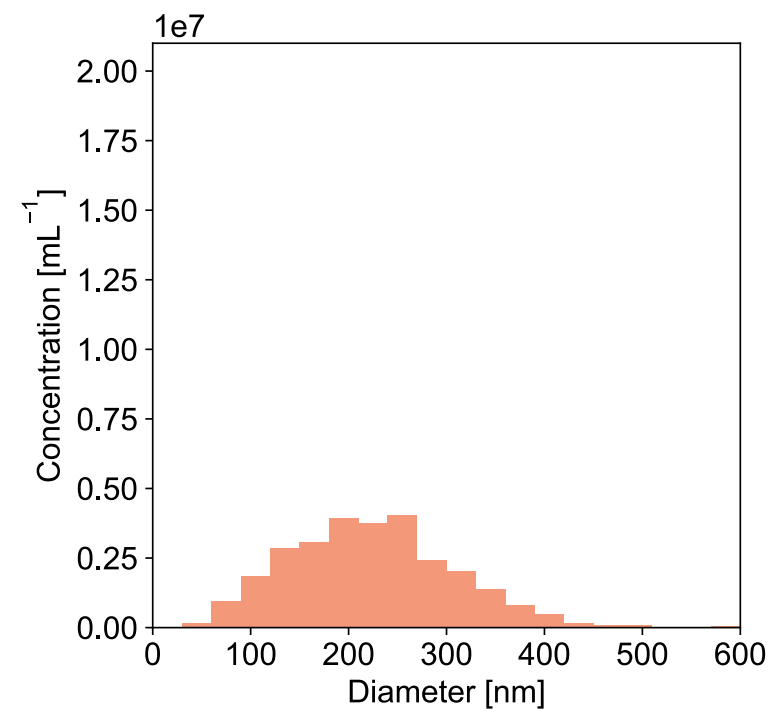
EVs, Unsheared



EVs, Sheared, PMMA



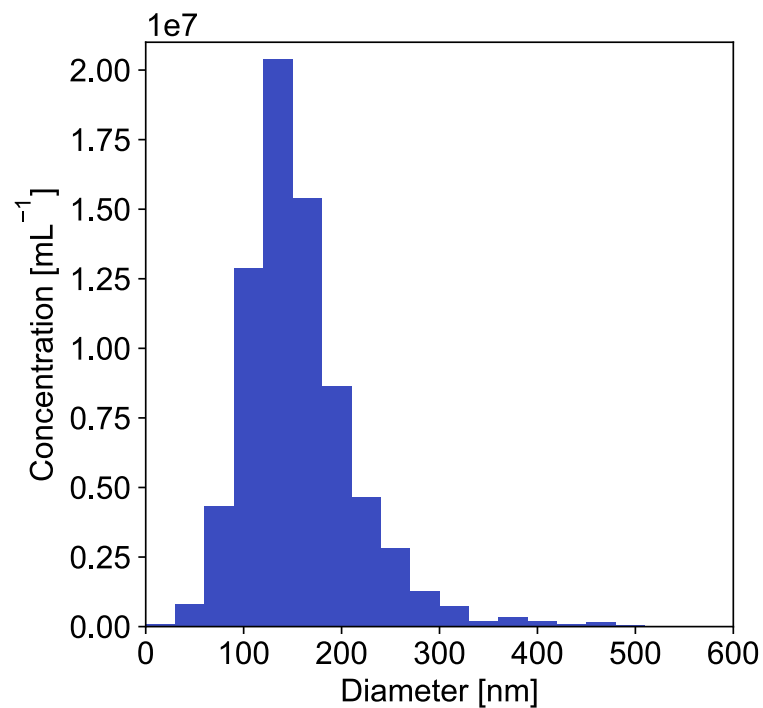
EVs, 2x Sheared, PMMA



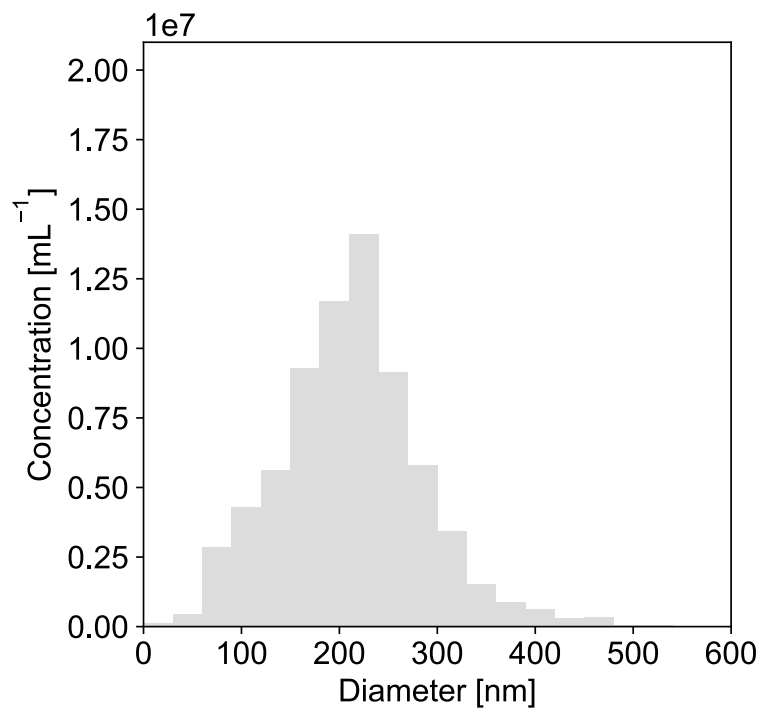
# Aggregation of EVs

## NTA Results

EVs, Unsheared



EVs, Sheared, Steel



EVs, 2x Sheared, Steel

