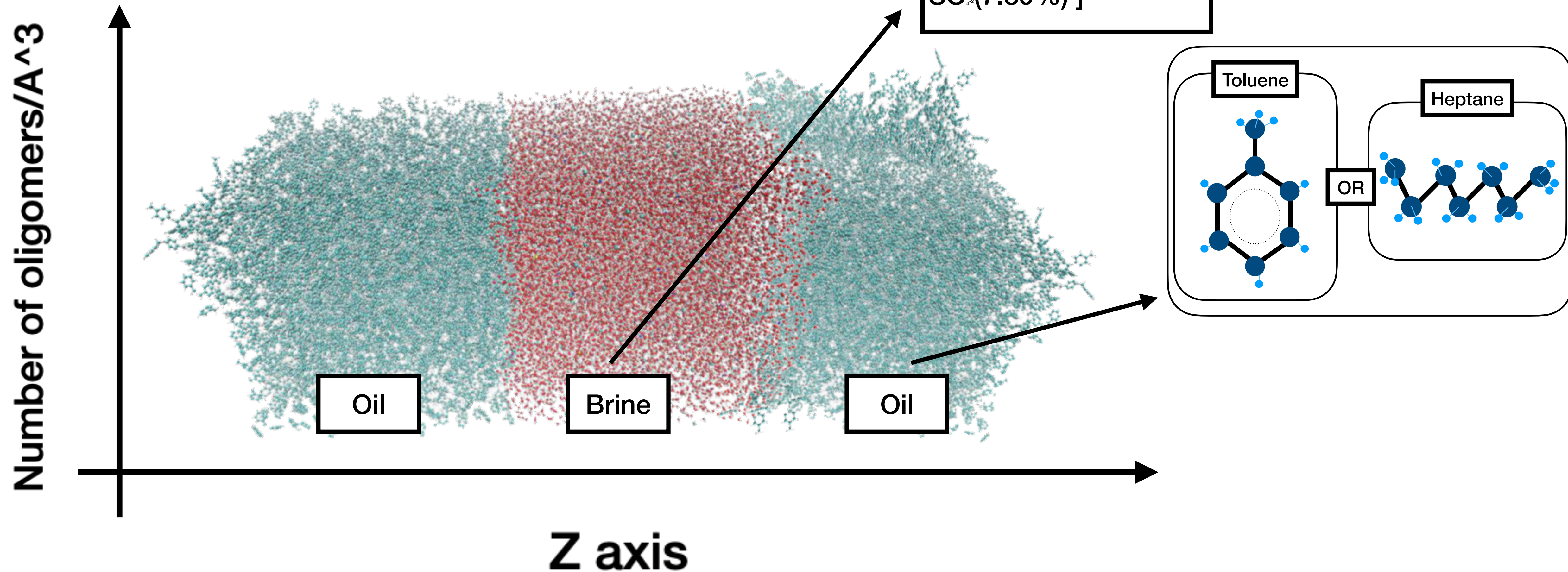


Studies of brine-oil interfaces based on molecular dynamics and sonification

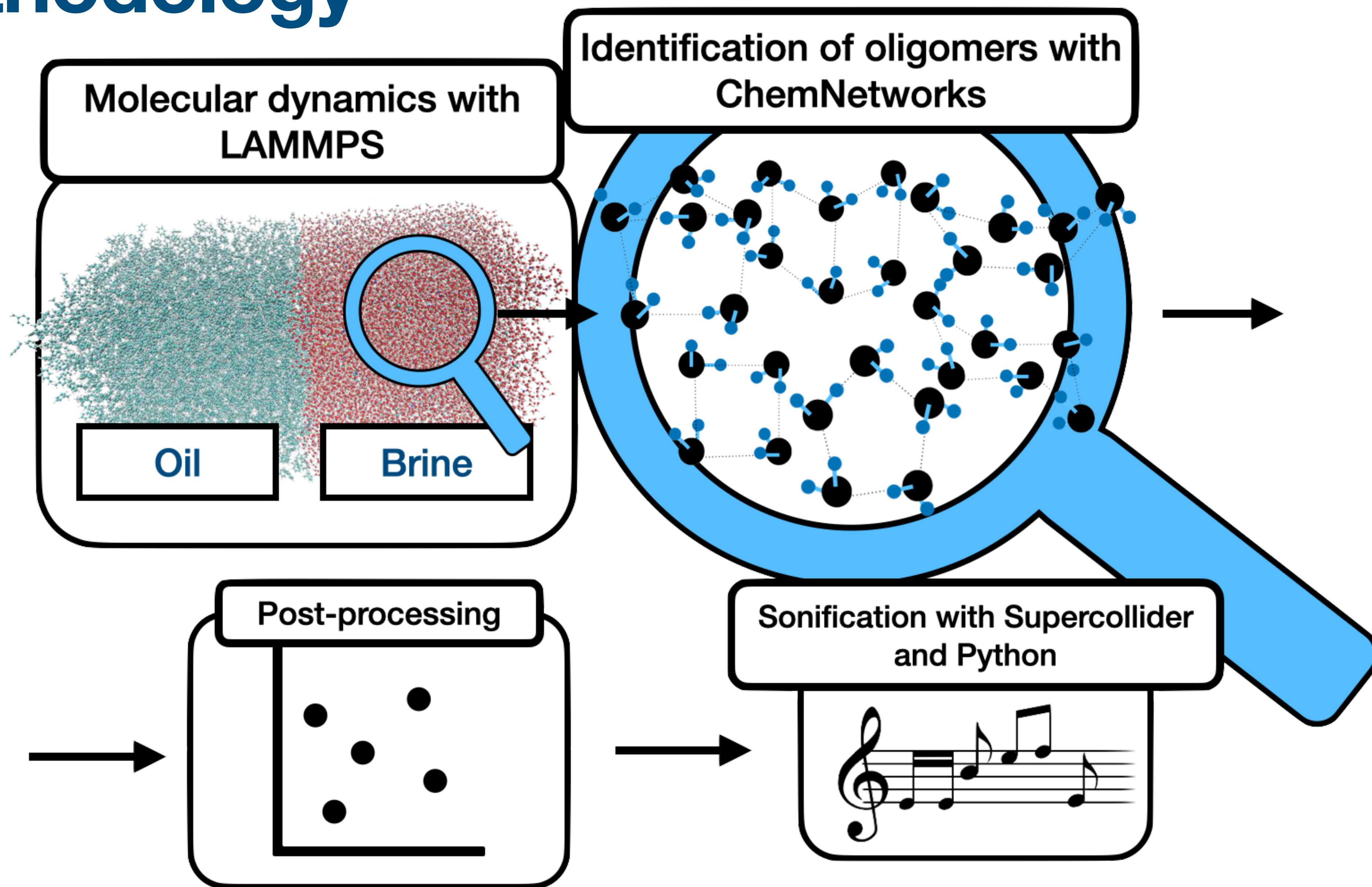
Archives to listen the sonication and figures of the formed
oligomers

Alexsandro Kirch e Dan Ni Lin

Oil / brine interface

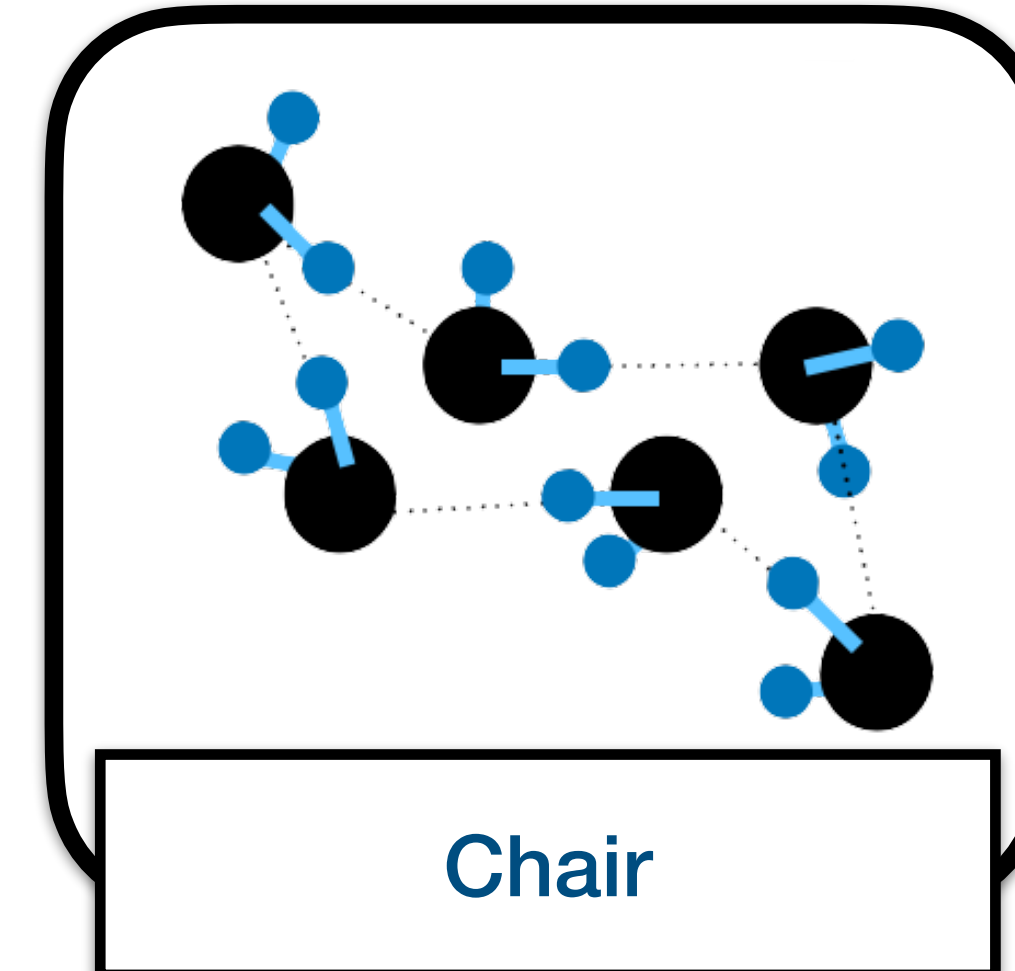
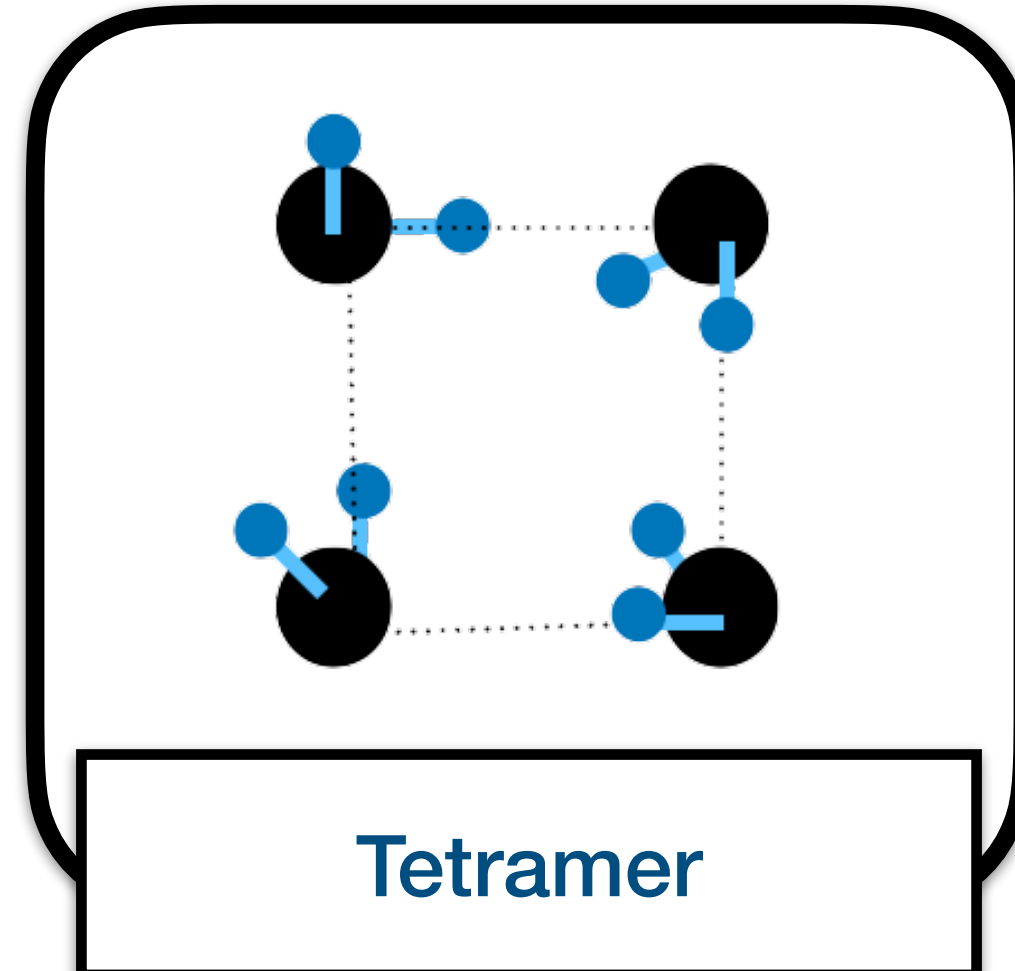
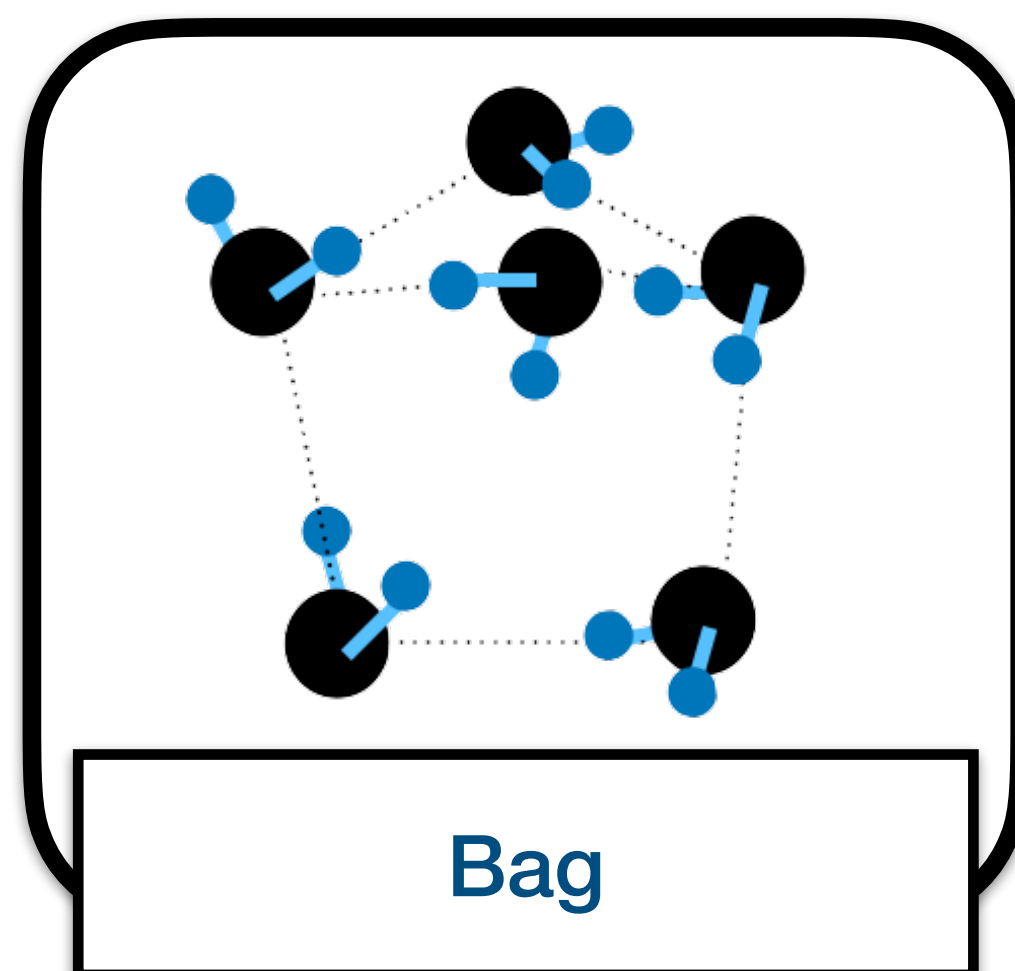
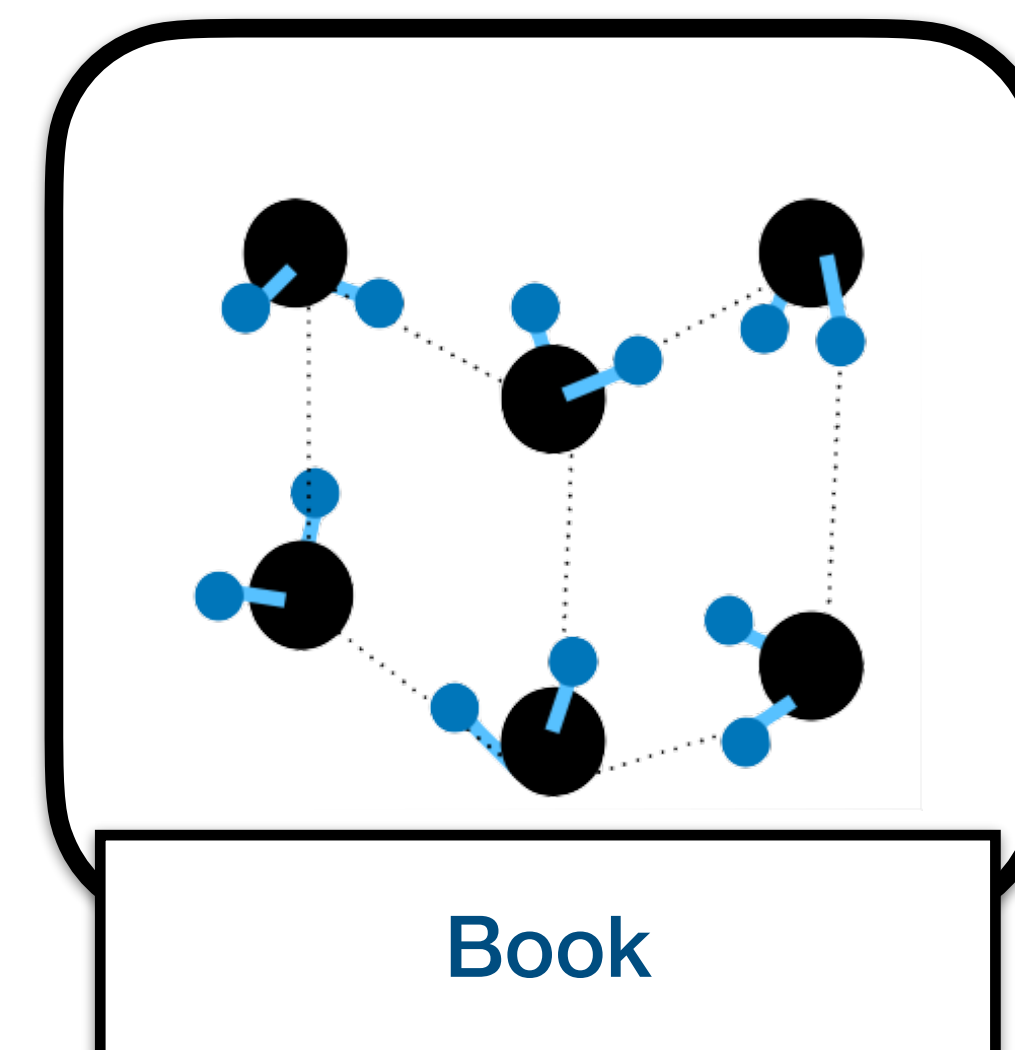
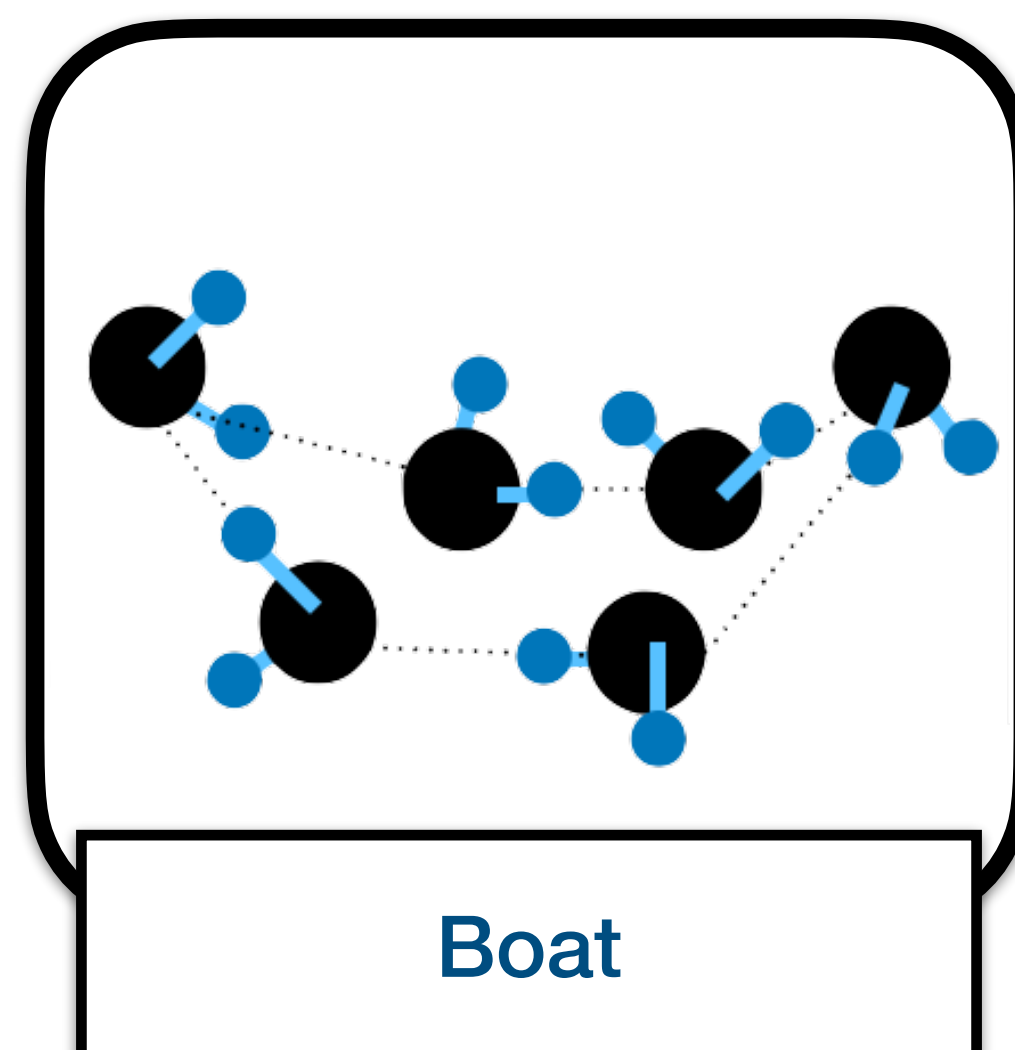
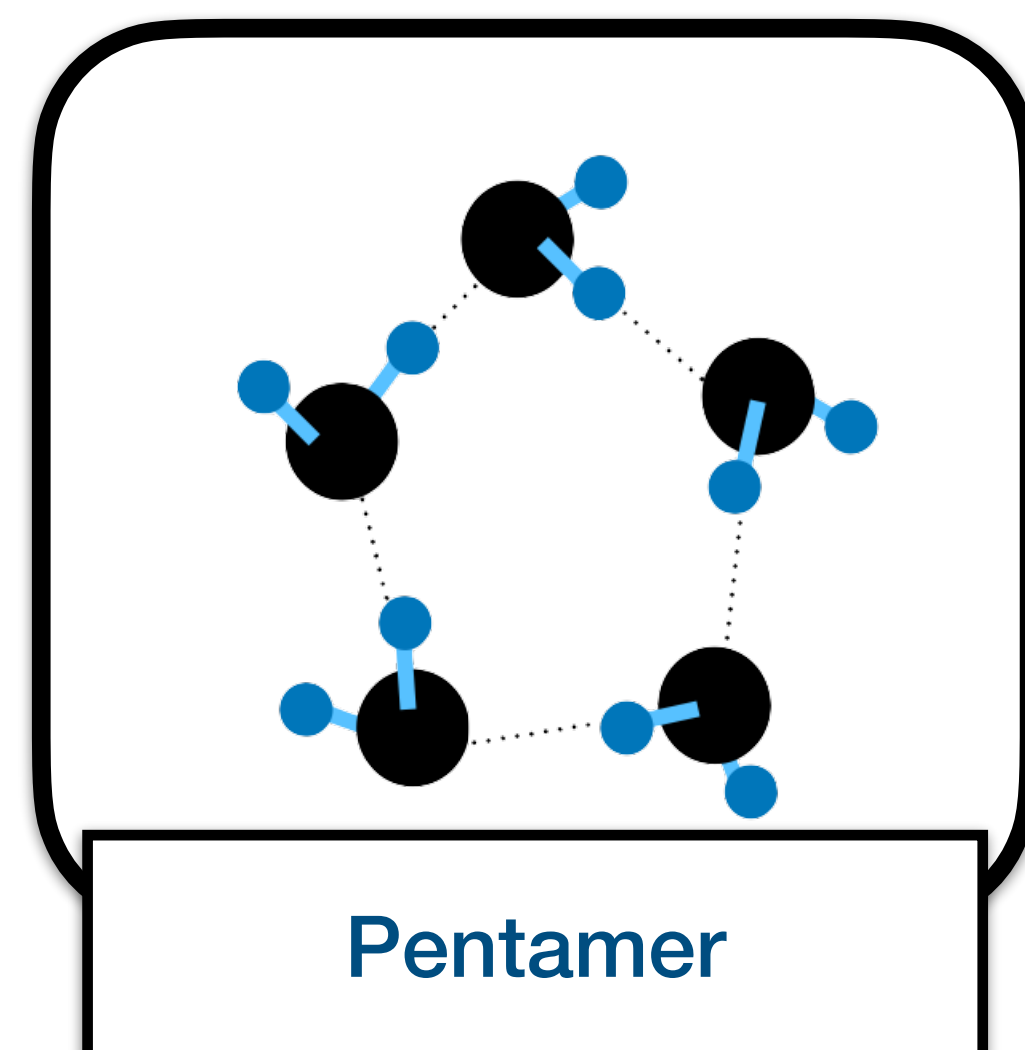


Methodology



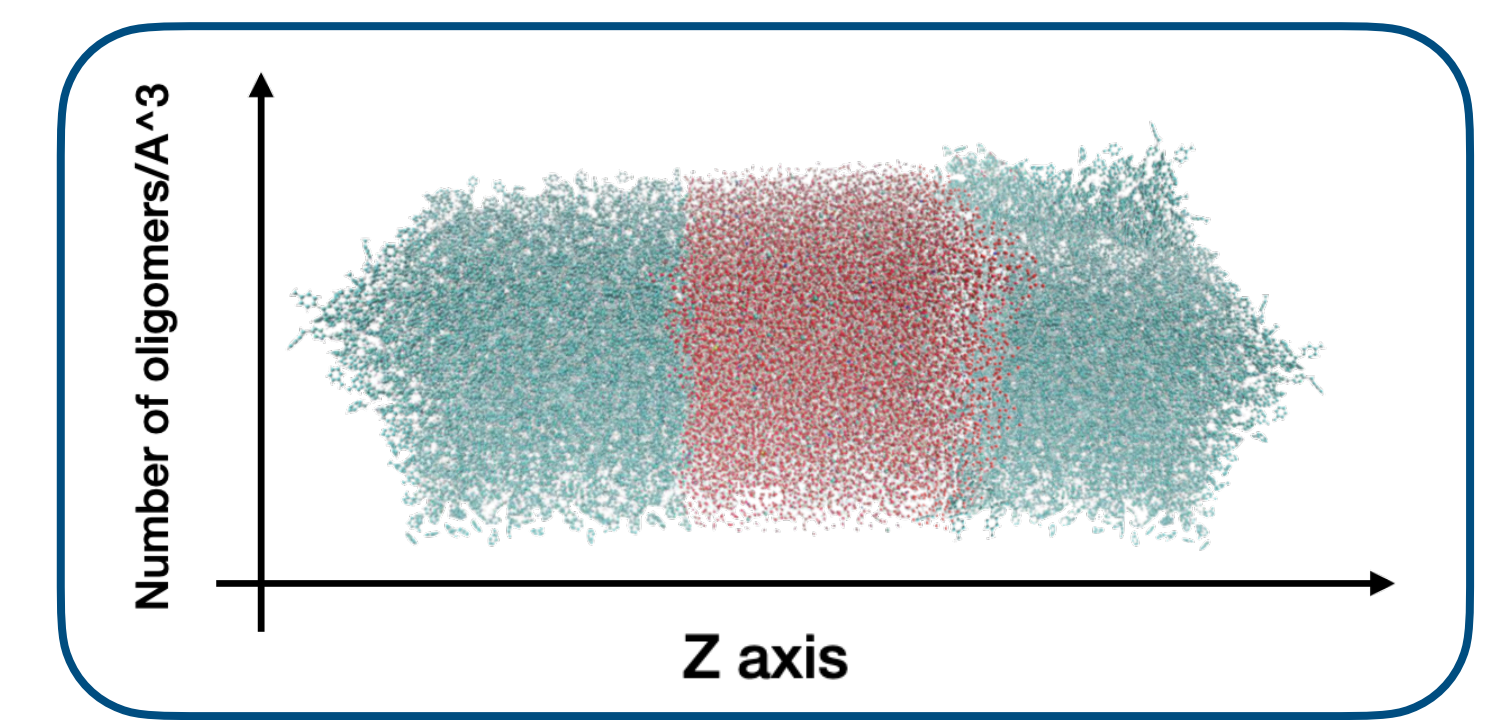
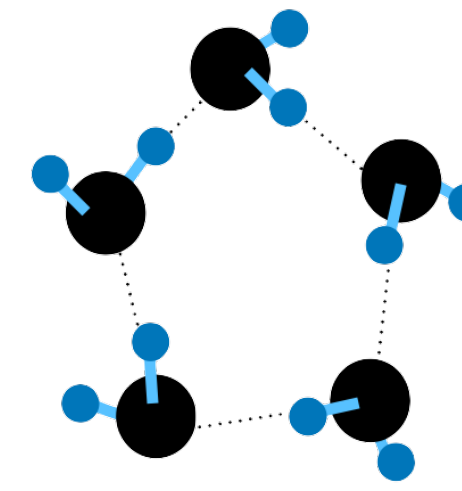
Formed Oligomers

Both systems formed the same oligomers

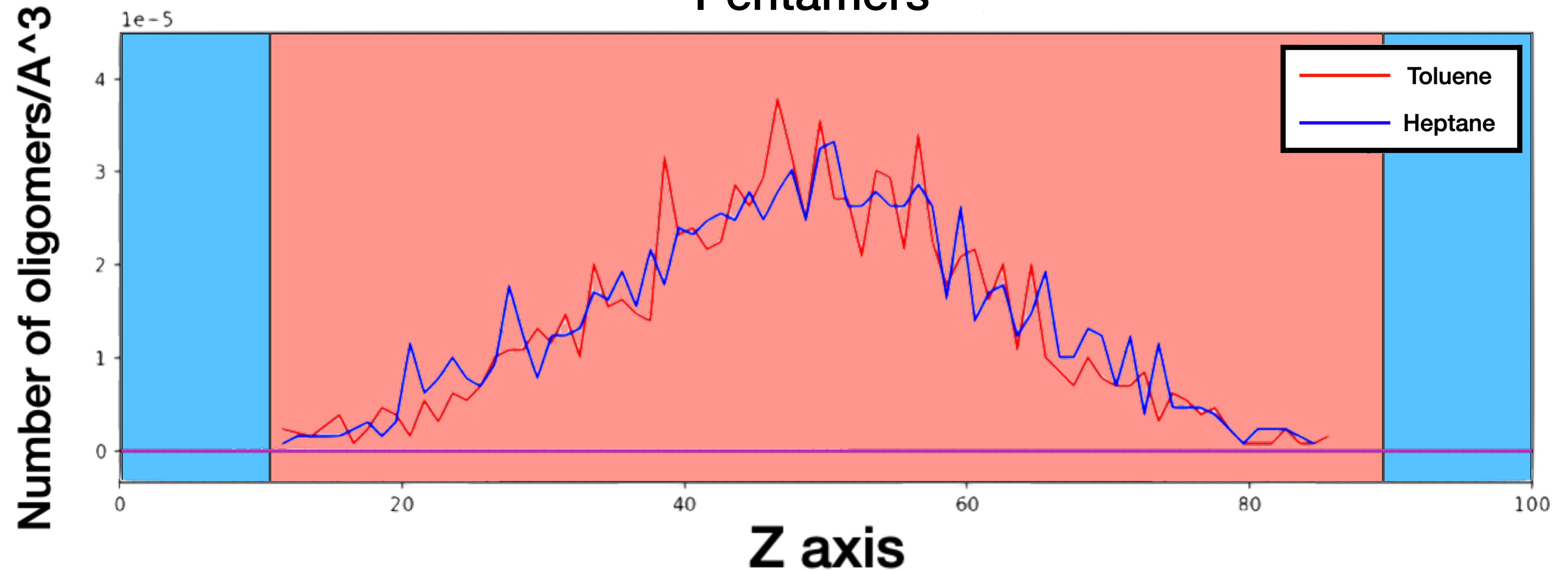


Sonification

Density profile of oligomers

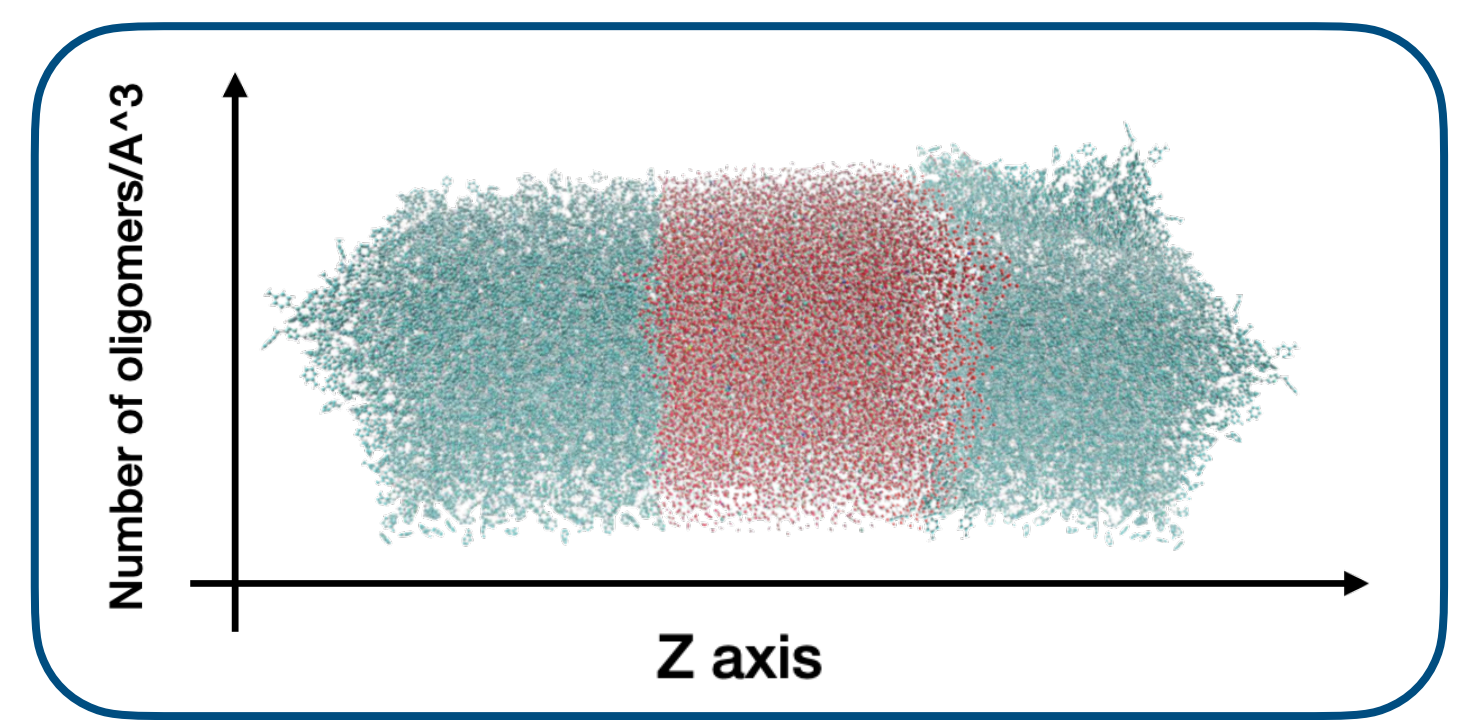
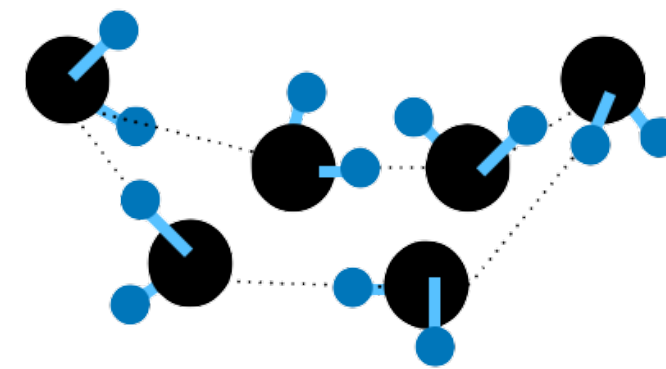


Pentamers



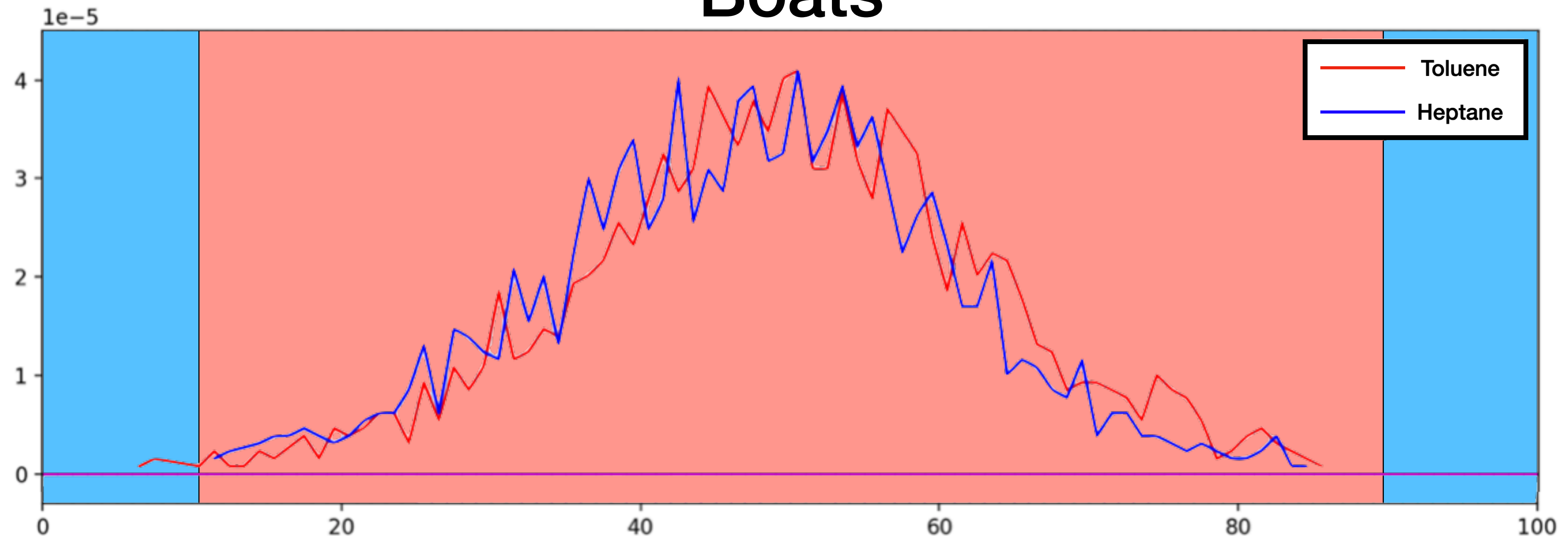
Sonification

Density profile of oligomers



Number of oligomers/A³

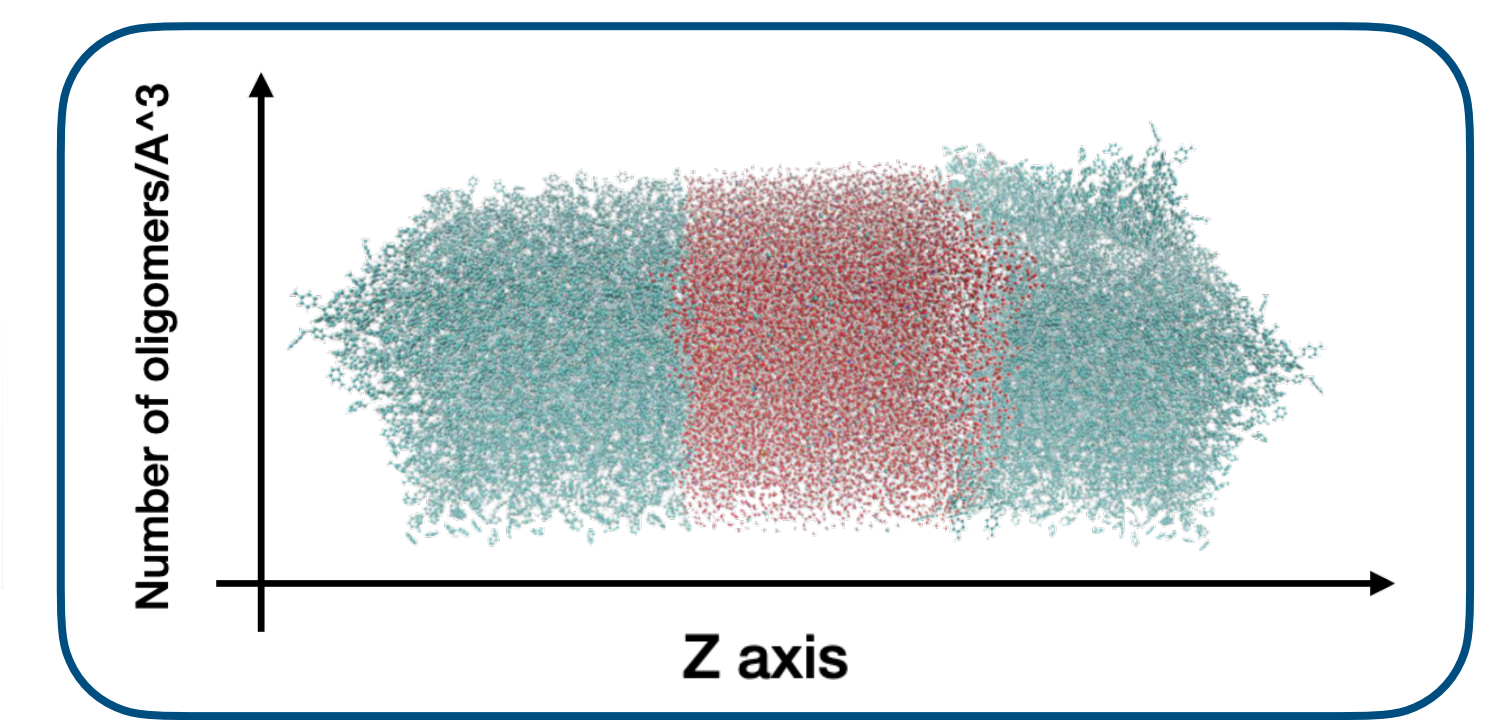
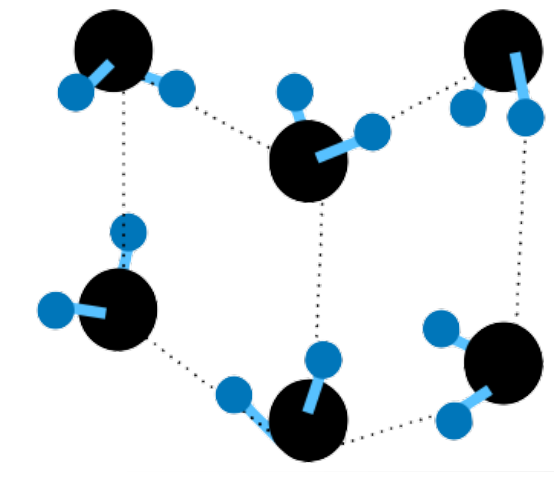
Boats



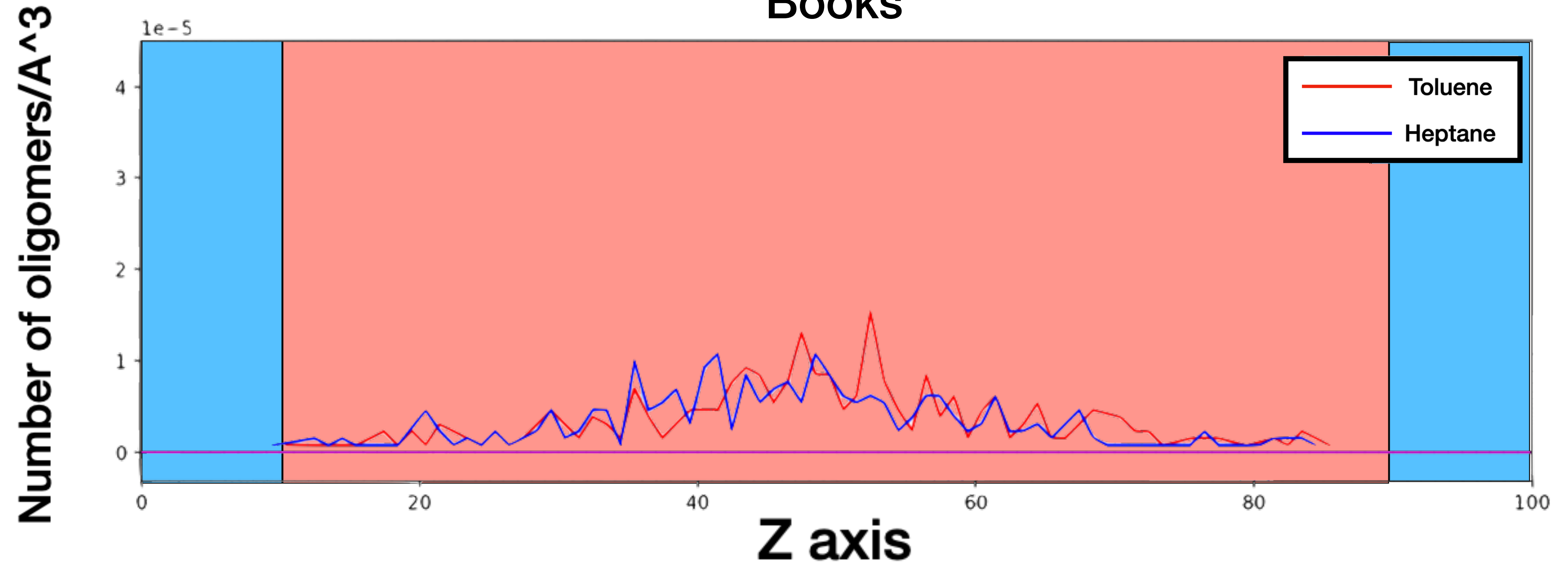
Z axis

Sonification

Density profile of oligomers

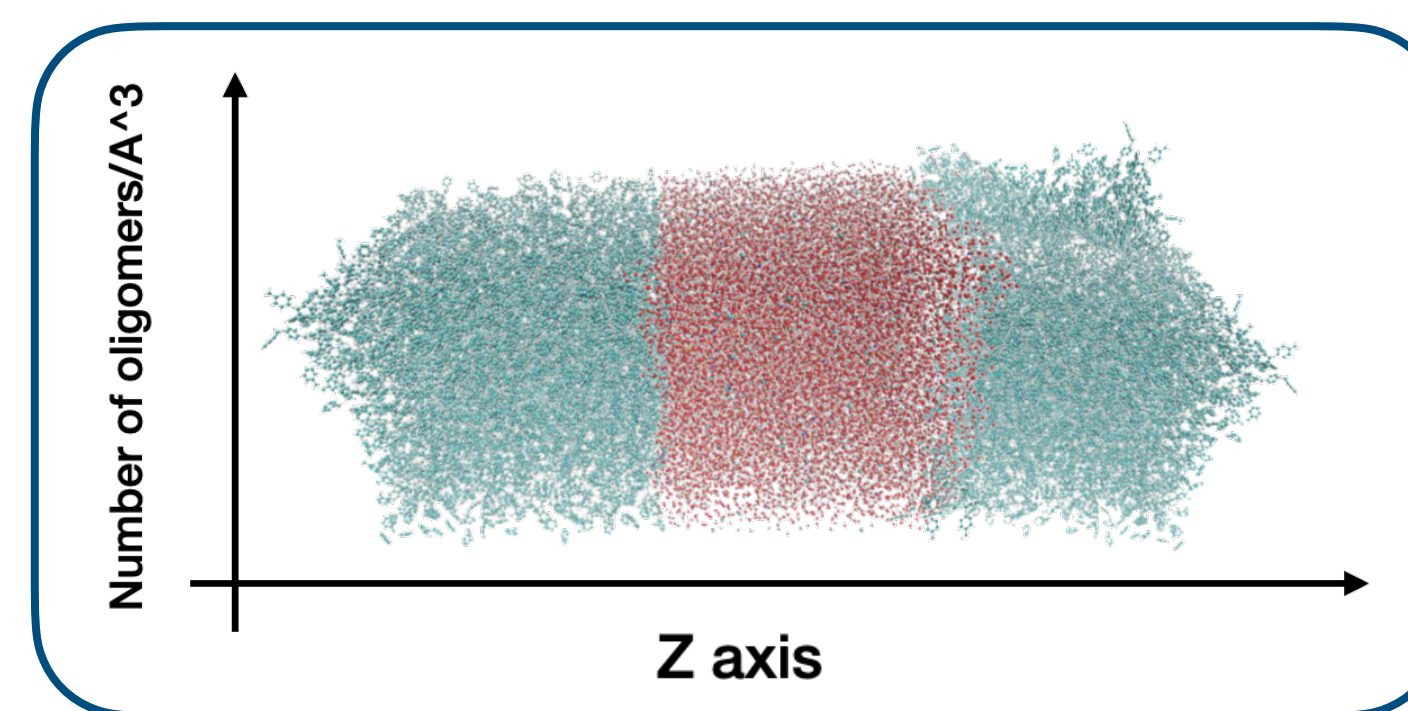
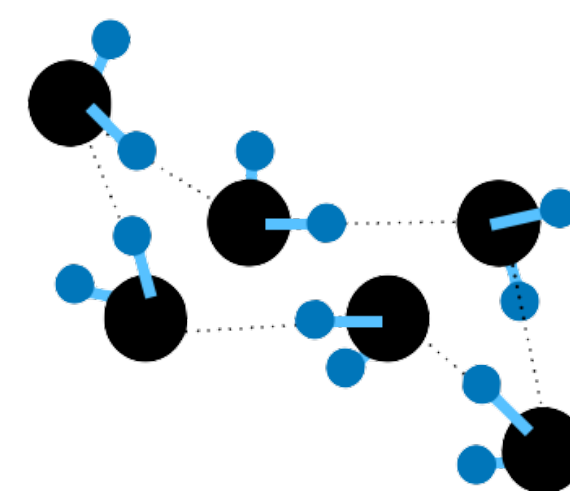


Books

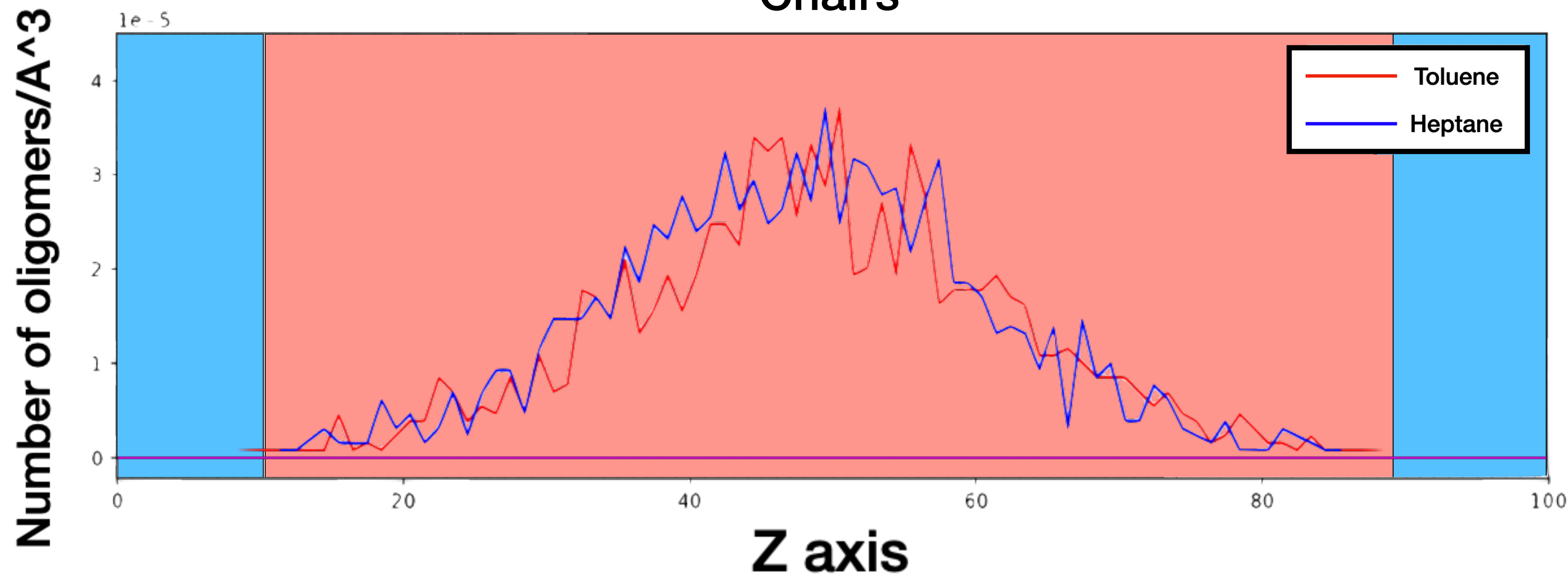


Sonification

Density profile of oligomers

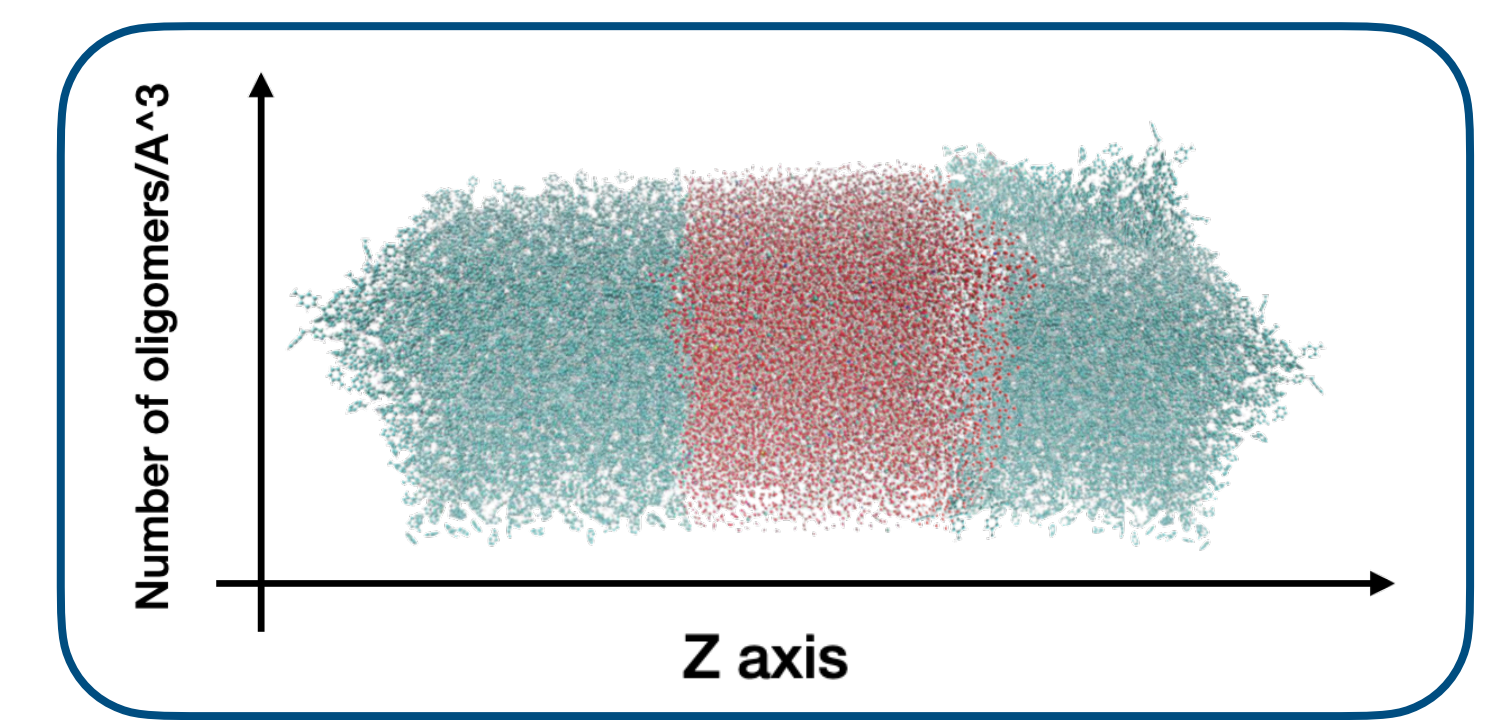
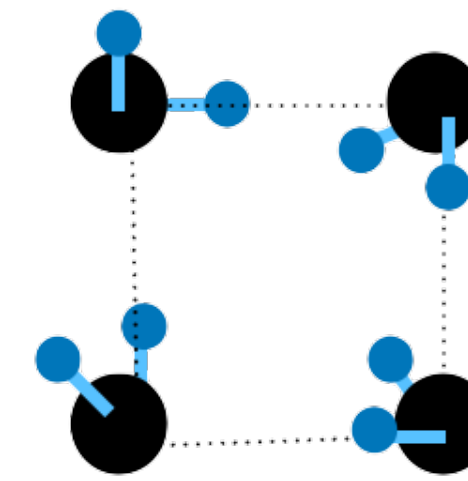


Chairs

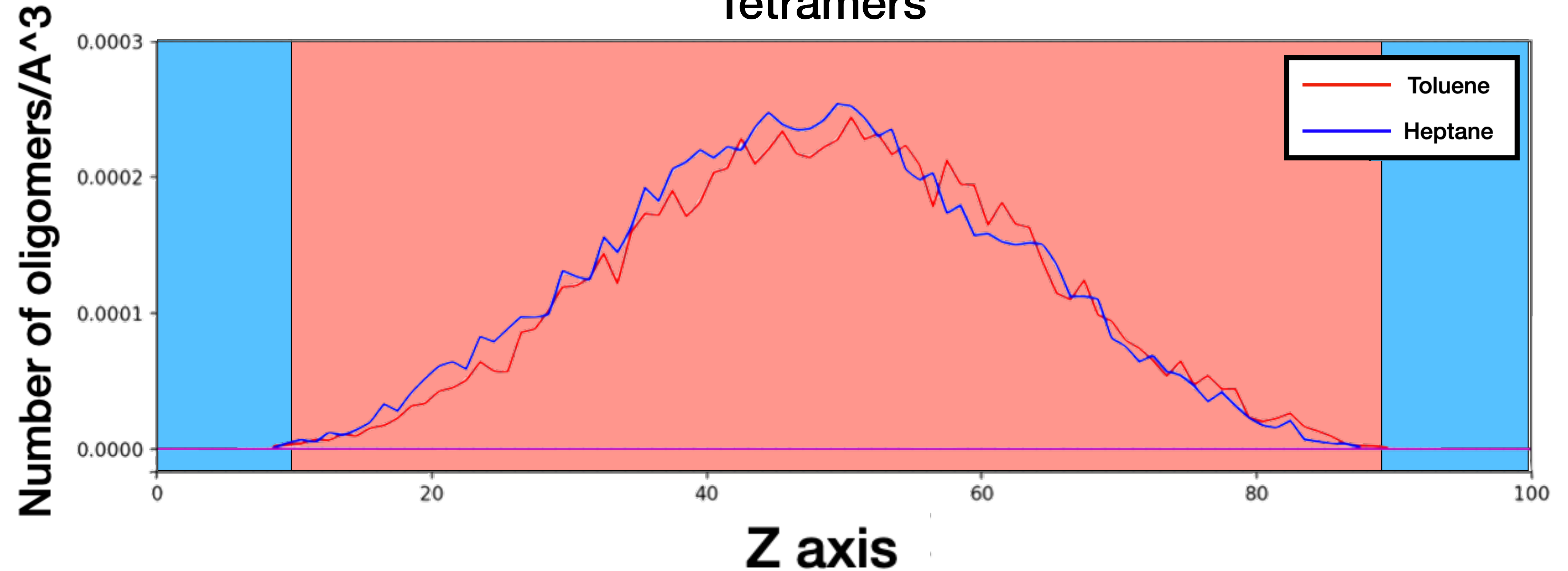


Sonification

Density profile of oligomers

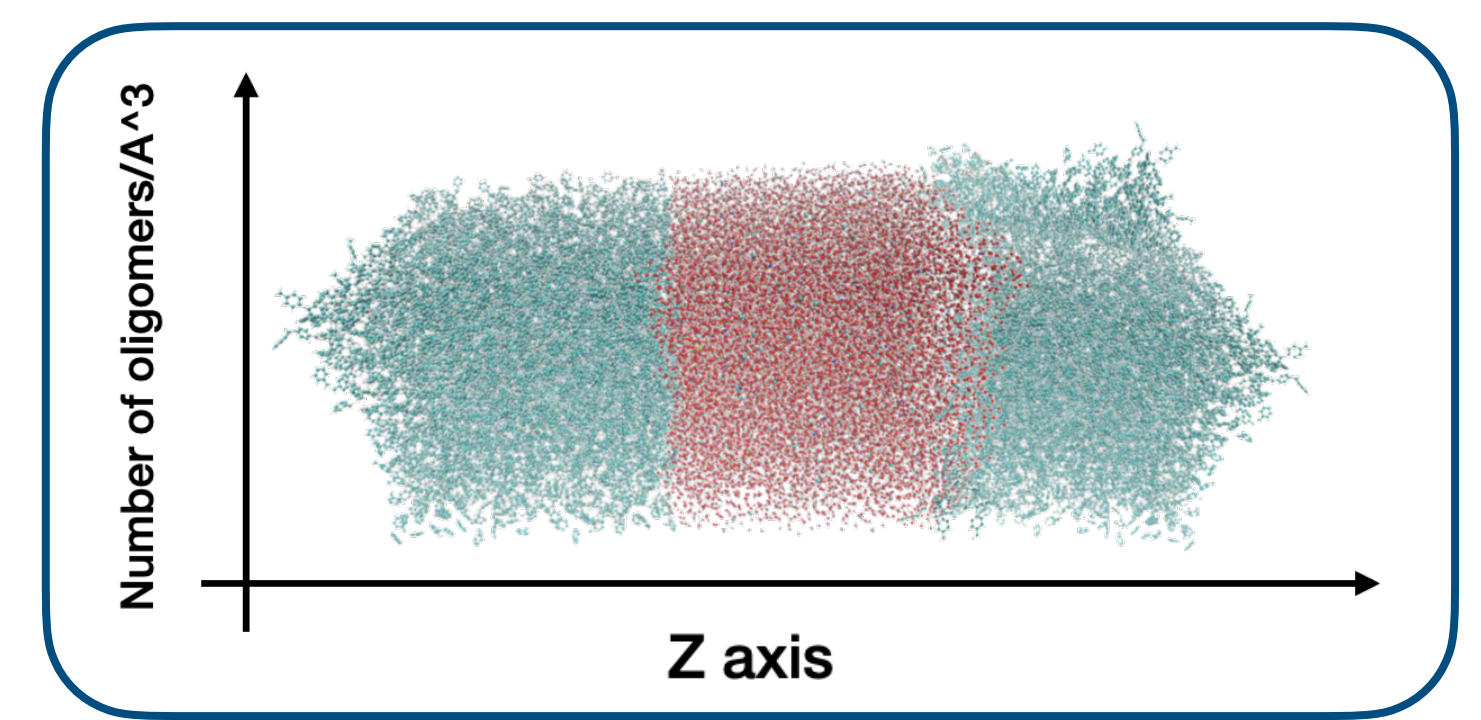
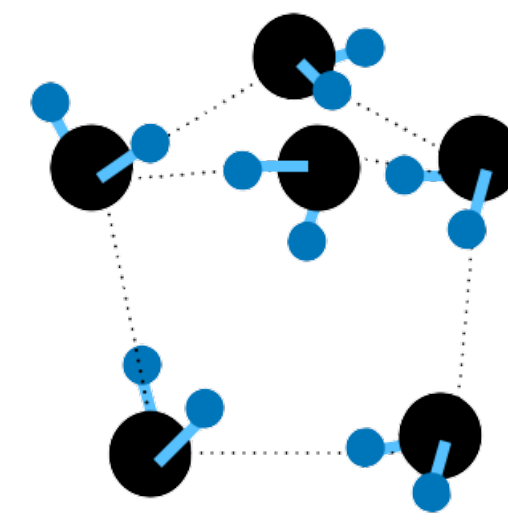


Tetramers

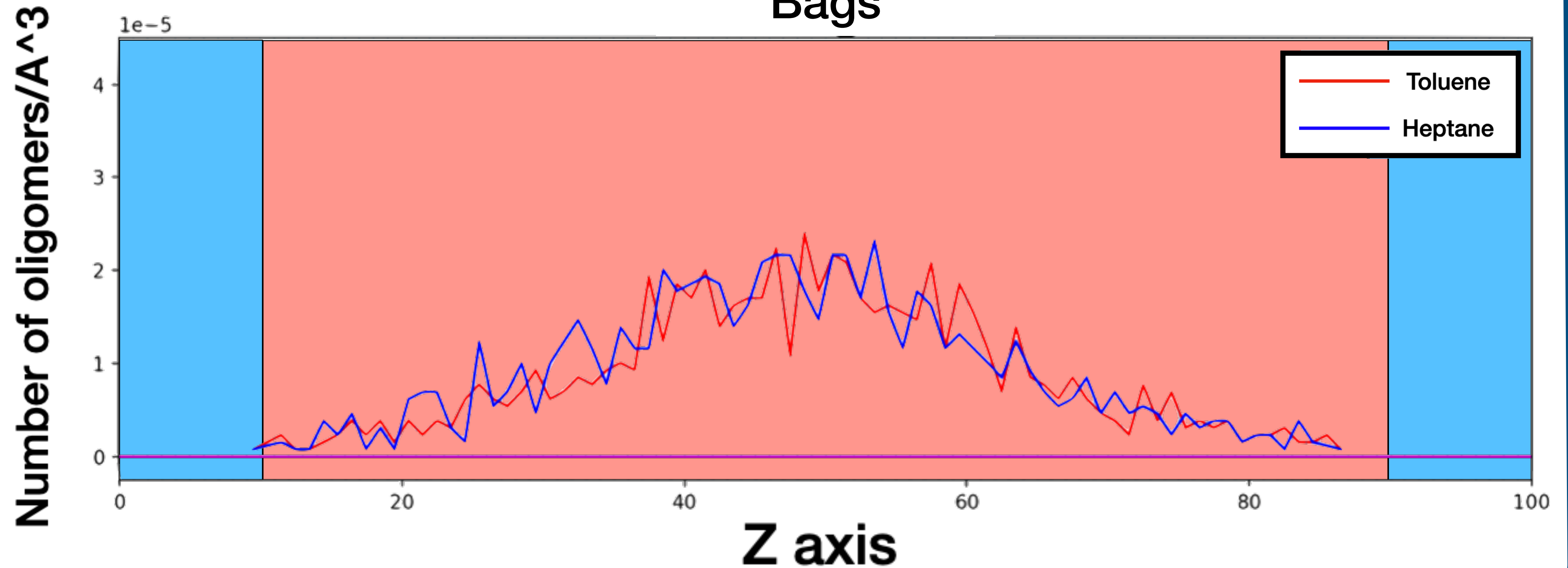


Sonification

Density profile of oligomers



Bags



Sonification

Python - interface heptane/brine	
Bag	Bags - hep.m4a
Boat	Boats - hep.m4a
Book	book - hep.m4a
Chair	Chair - hep.m4a
Pentamer	pentamers - hep.m4a
Tetramer	tetramers -hep.m4a

Python - interface toluene/brine	
Bag	Bags - tol.m4a
Boat	Boat - tol.m4a
Book	book - tol.m4a
Chair	Chair - tol.m4a
Pentamer	pentamers - tol.m4a
Tetramer	tetramers - tol.m4a

SuperCollider - interface heptane/brine	
Bag	Bag - hep.m4a
Boat	Boat - hep.m4a
Book	Book - hep.m4a
Chair	Chair - hep.m4a
Pentamer	Pentamer - hep.m4a
Tetramer	Tetramers - hep.m4a
Todos os oligômeros	Tudo - hep.m4a
Todos os oligômeros_2	Tudo - orquestra - hep.m4a

SuperCollider para a interface tolueno/salmoura	
Bag	Bag - tol.m4a
Boat	Boat - tol.m4a
Book	Book - tol.m4a
Chair	Chair - tol.m4a
Pentamer	Pentamer - tol.m4a
Tetramer	Tetramers - tol.m4a
Todos os oligômeros	Tudo - tol.m4a
Todos os oligômeros_2	Tudo - variação ritmica.m4a