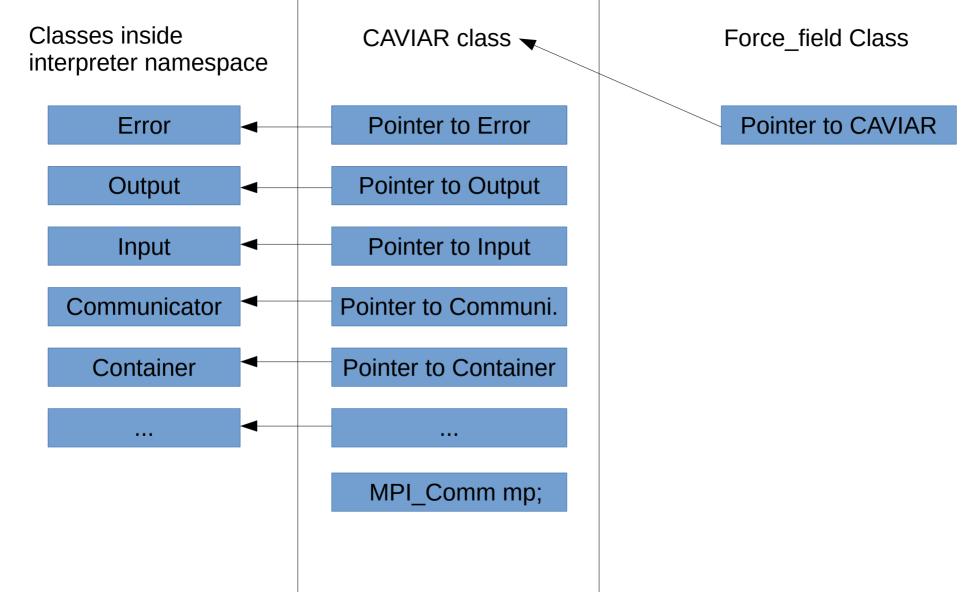
CAVIAR with Boost Python II

```
import caviarmd
#==== Atom definition =====
                                                          c = caviarmd.caviar("")
unique atom a1
a1 type 0
                                                          #==== Atom definition =====
a1 position -1 0 0
                                                           a1 = caviarmd.unique.Atom(c)
unique atom a2
                                                          a1.type = 0
a2 type 0
                                                           a1.position=[-1,0,0]
a2 position 1 0 0
                                                           a2 = caviarmd.unique.Atom(c)
                                                           a2.type = 0
#==== Domain
                                                           a2.position=[1,0,0]
domain box dom
                                                          #==== Domain
dom xmin -50 xmax 50
dom ymin -50 ymax 50
                                                           dom = caviarmd.domain.Box(c)
dom zmin -50 zmax 50
                                                           dom.lower global = [-50, -50, -50]
dom boundary condition 0 0 0
                                                           dom.upper global = [50,50,50]
dom generate
                                                           dom.boundary condition = [0,0,0]
                                                          dom.generate()
#===== Atom data
                                                          #===== Atom data
atom data basic adata
adata ghost cutoff 5
                                                           adata = caviarmd.atom data.Basic(c)
adata cutoff extra 0.01
adata set domain dom
                                                           adata.ghost cutoff = 5
adata add atom a1
                                                           adata.cutoff extra = 0.01
adata add atom a2
                                                           adata.domain = dom
adata add type mass 0 1.0
                                                           adata.add atom(a1)
adata add type charge 0 0.0
                                                           adata.add atom(a2)
                                                           adata.add type mass(0,1.0)
                                                           adata.add type charge(0,0.0)
```



Force_field class MD_Simulator Atom_data 🗸 Pointer to Force_field Pointer to Atom_data **Position** Pointer to Integrator Velocity Pointer to Neighborlist Member functions... Pointer to Domain Mass ... Member functions...

src/caviar/CAVIAR.cpp

include/caviar/objects/force_field/lj.h

src/caviar/objects/force_field/lj.cpp

include/caviar/utility/python_utils_dec.h

include/caviar/utility/python_utils_def.h

