**Code Conventions**

A C++ class Foo will typically have two derived typedefs associated with it, Foo\_sptr and Foos. The former is a Boost shared\_ptr to Foo. The latter is a standard library list of Foo\_sptr’s. In Python, Foo and Foo\_sptr may be considered interchangeable.

1-, 2- and 3-dimensional arrays are implemented via Boost MultiArrays in C++ and Numpy arrays in Python. The Python bindings take care of the low-overhead conversion between the two types.