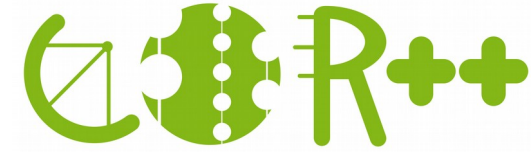
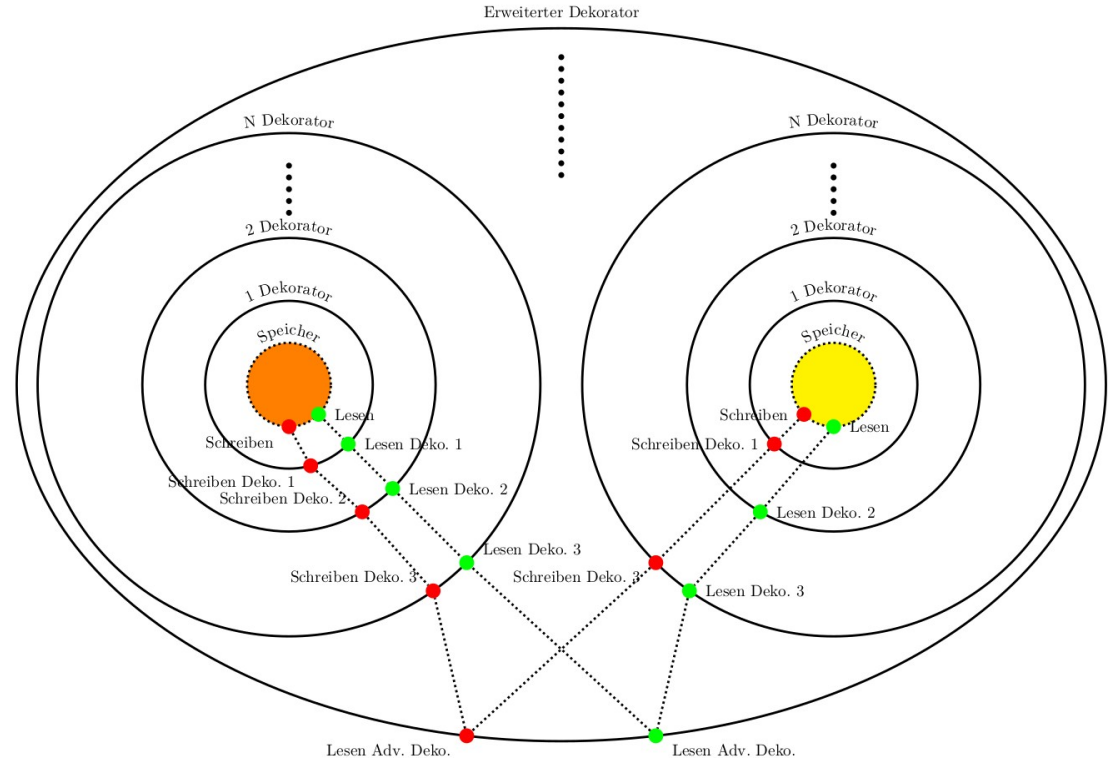


Dynstack Stack

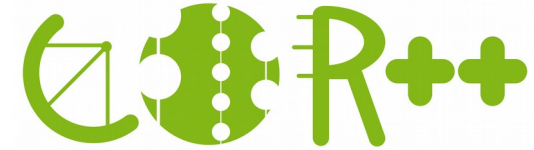


- Decorator Design Pattern
- Complete decoupled particle and storage
- Only one type of particle storable





Dynstack Particle

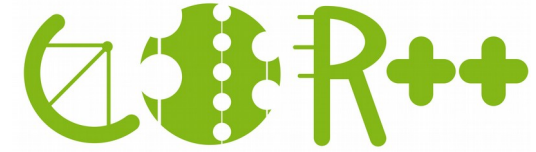


<https://github.com/tudo-astroparticlephysics/Cor-PlusPlus/blob/master/basic/include/corsika/particle.h>

- Variadic template
- `make_particle<data::basic , data::custom, 3,
data::curved, data::multithin>();`
- Enums to access data → `particle[impulse_x]`
or `get / set`



Dynstack Stack



- FiFo / LiFo Storage
- Callback
- Arbitrary Sort
- Splitting
- Removal



Corsika 8

- Stack is currently linked to stored particles (getter/setter)
- Naming convention similar to container:
 - clear, resize, erase
 - push_back, emplace, insert
 - pop_back, back
 - iterator, const_iterator
 - begin, end
 - empty, size, max_size, reserve
- Templates: