DATCHA
Pattern Recognition

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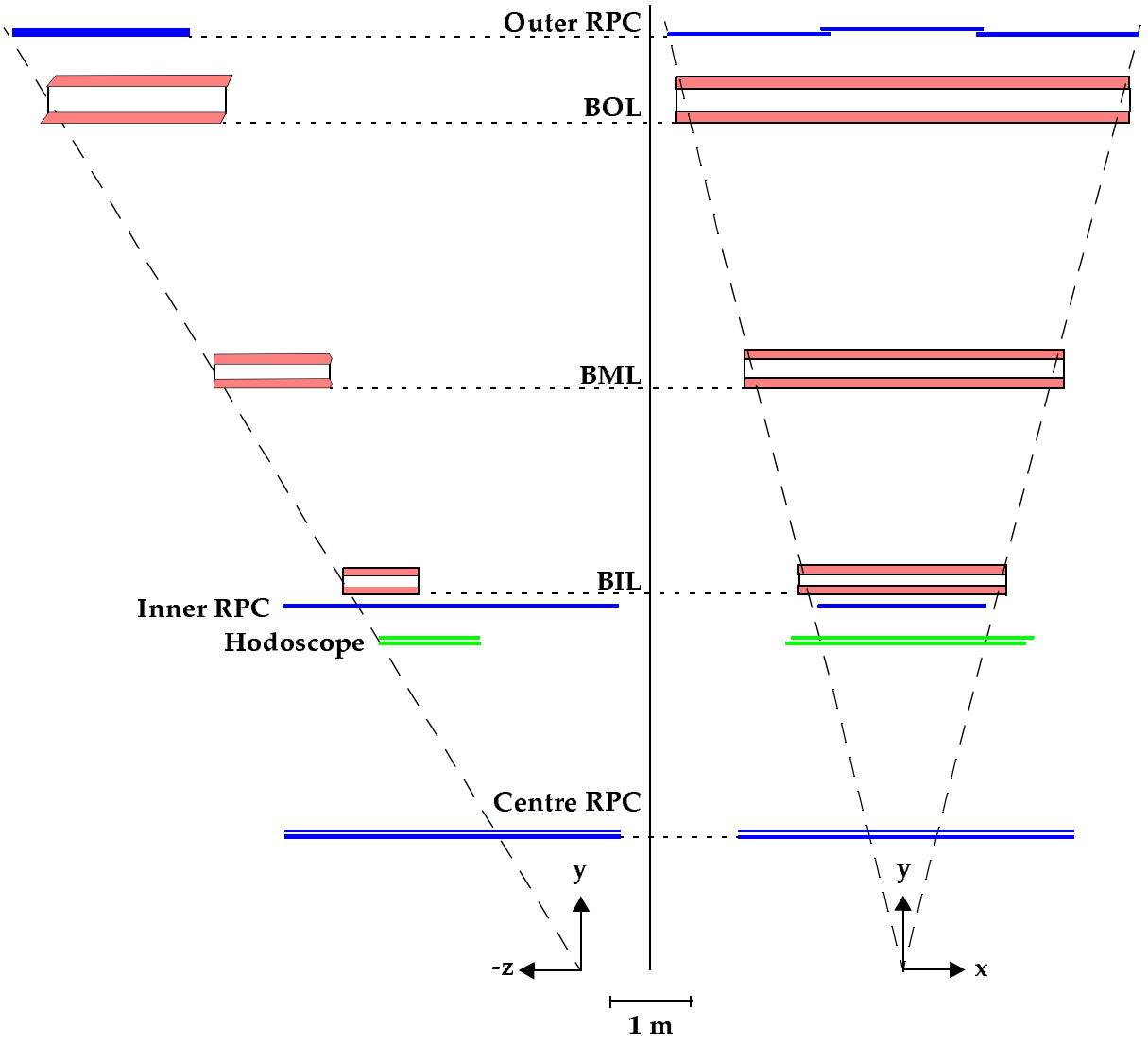
DATCHA

Demonstration of ATLAS Chamber Alignment



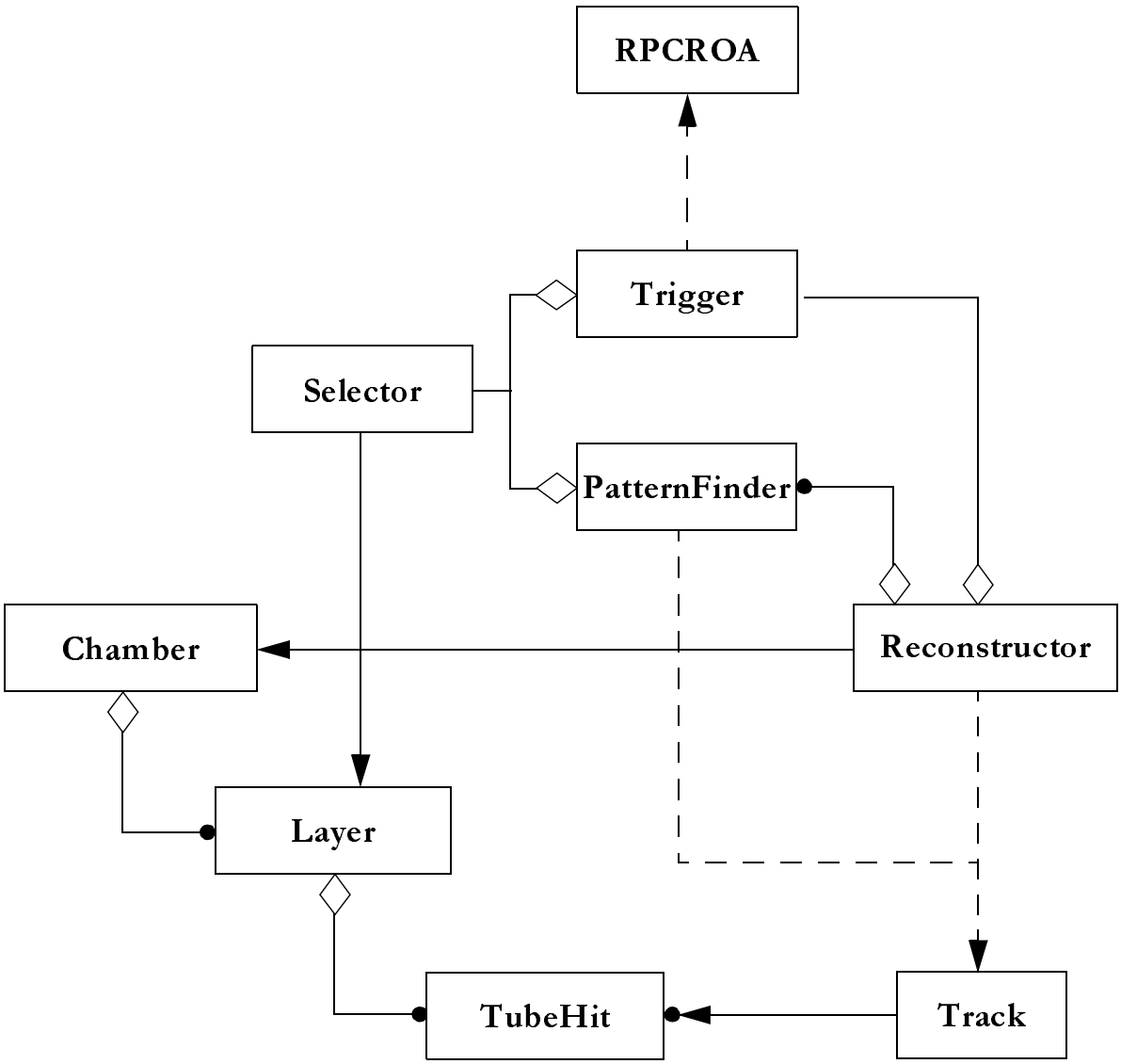
Reconstruction Algorithm

1. Based on the hits in the RPC trigger chambers one or more regions of activity are created.

2. For each of these regions find the MDT hits that lie inside and create possible track segments in the three chambers.

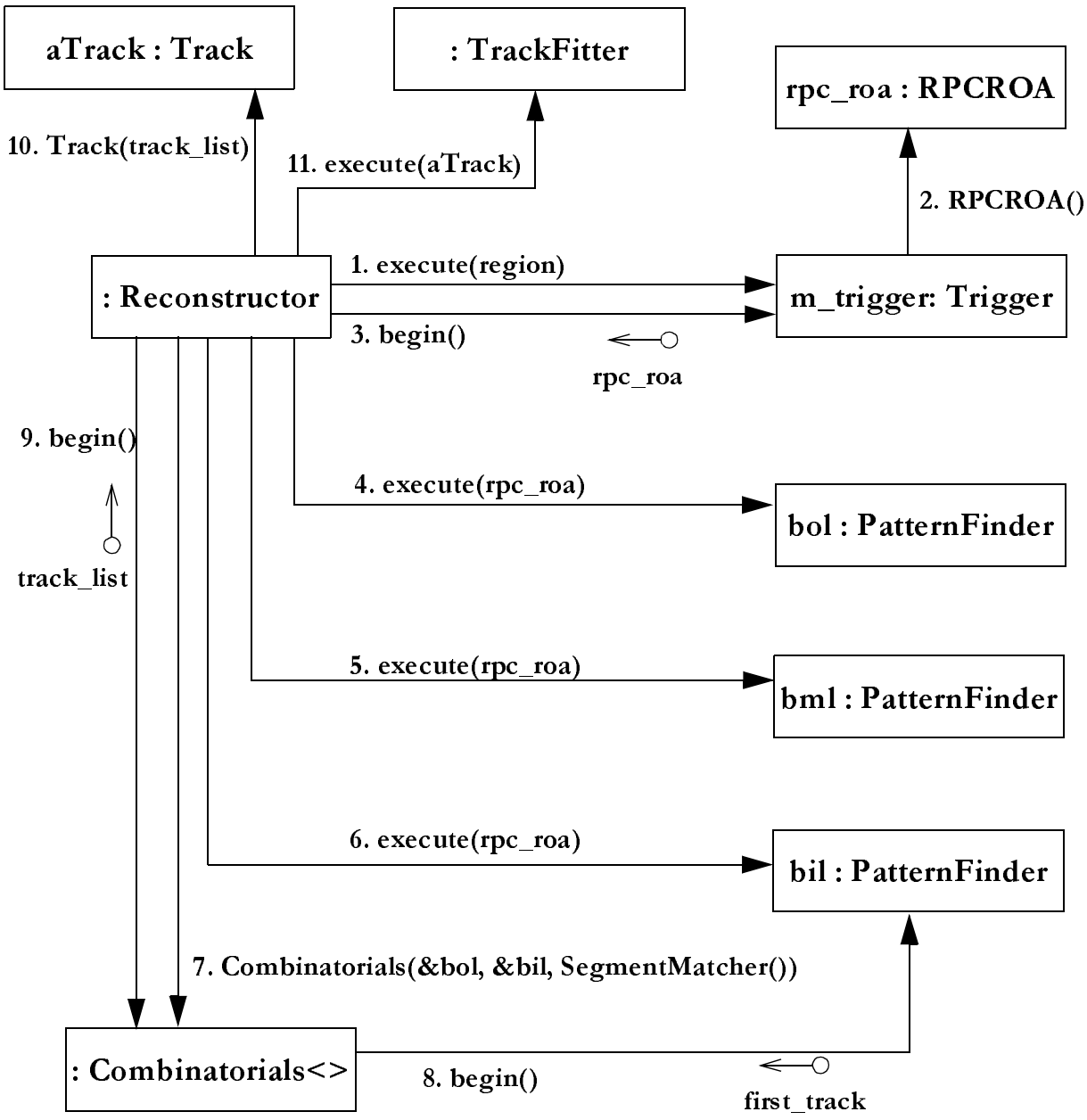
3. Combine the segments into a single track if they match.

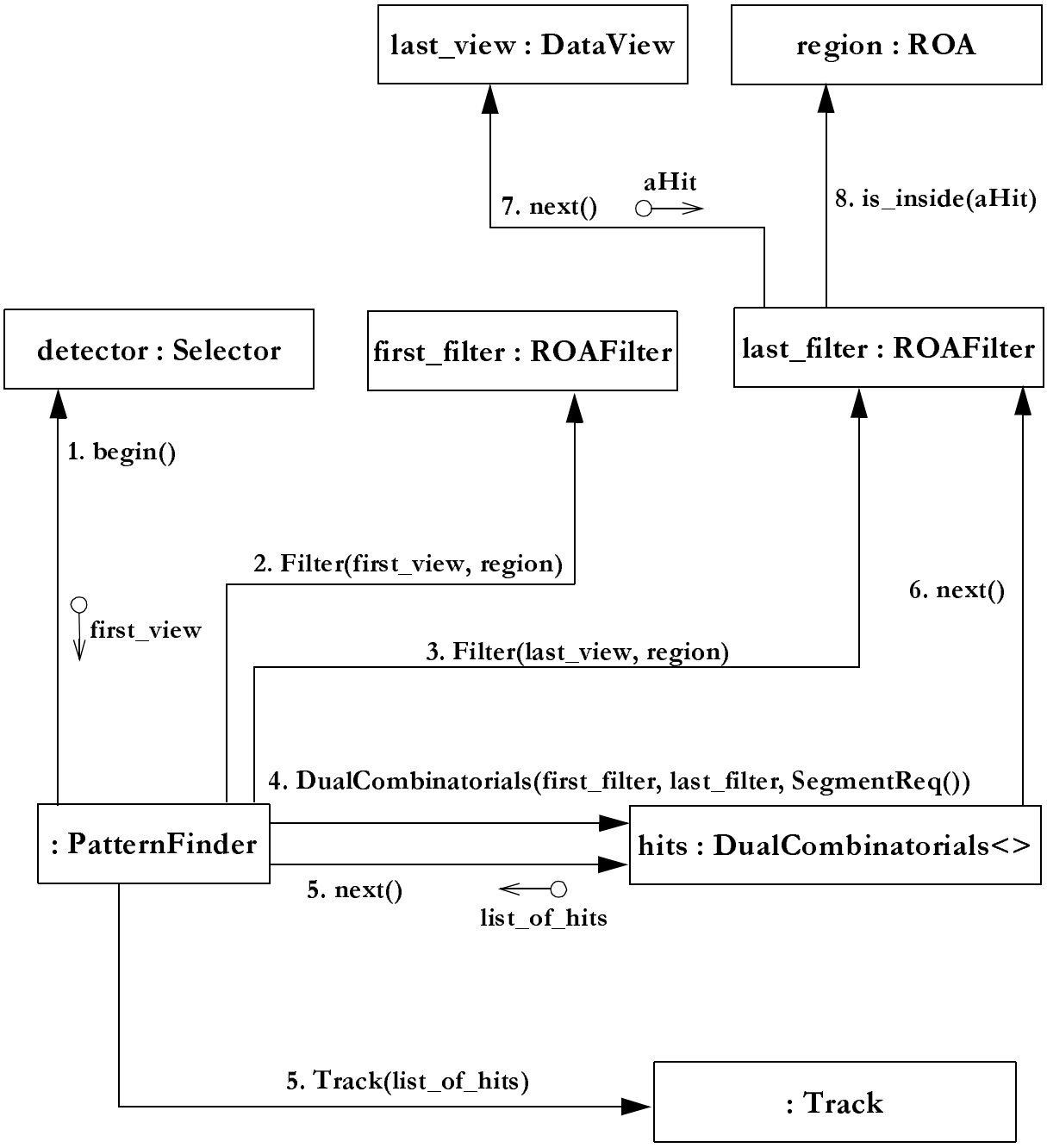
Global Class Diagram



Global Reconstruction

vector<Track>
Reconstructor::execute(const ROA& region = FullDetector())



Pattern Recognition

void
PatternFinder::execute(const ROA& region)