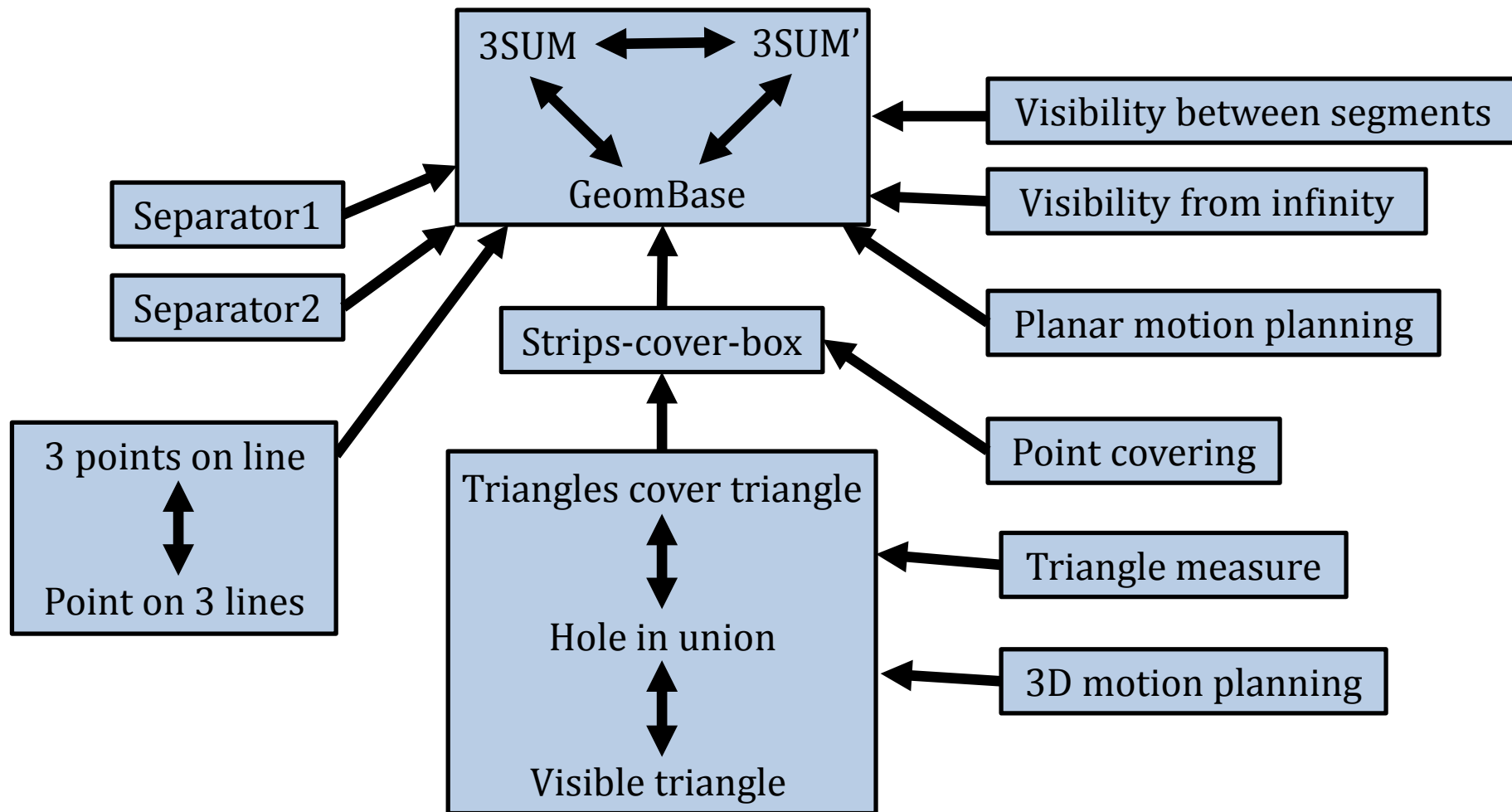


3SUM-hard problems

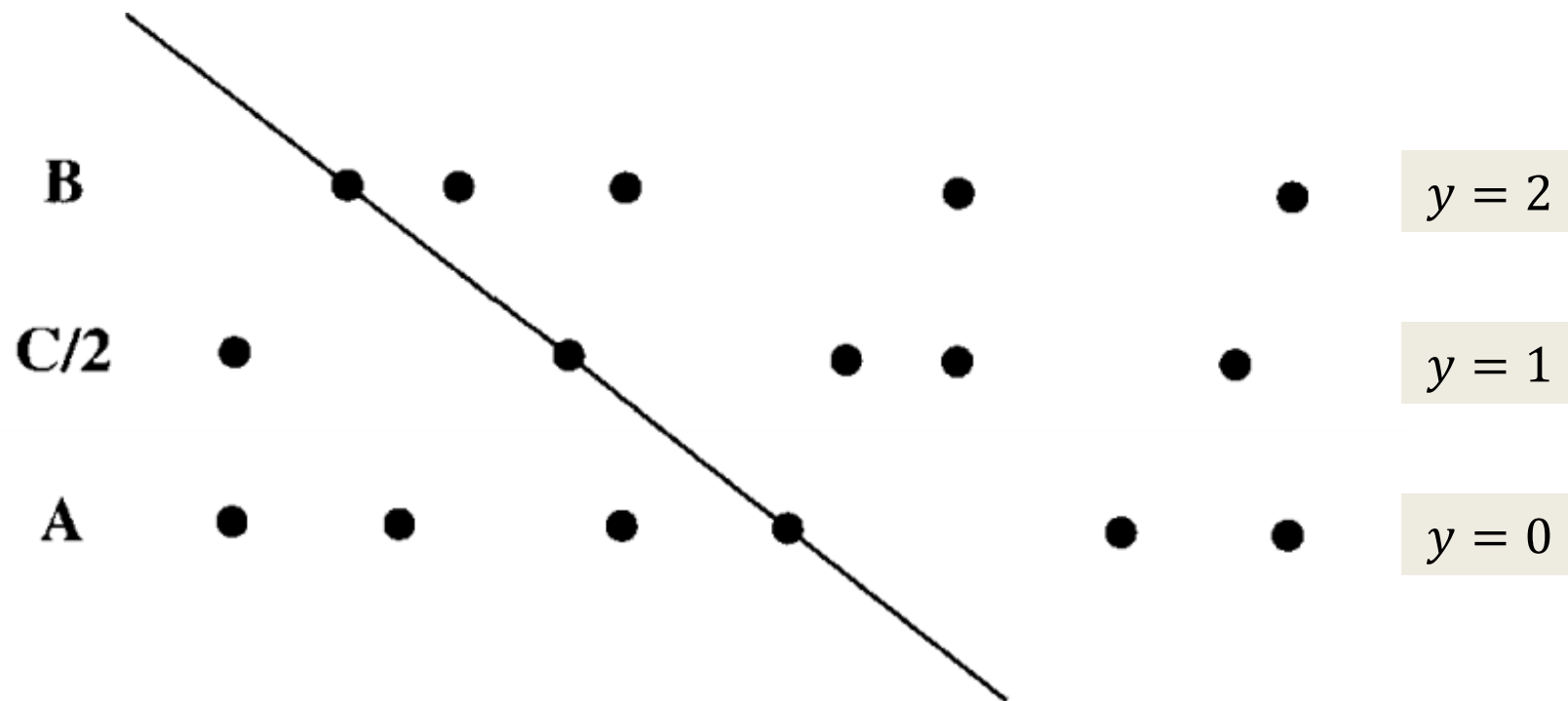
[Gajentaan & Overmars 1995]





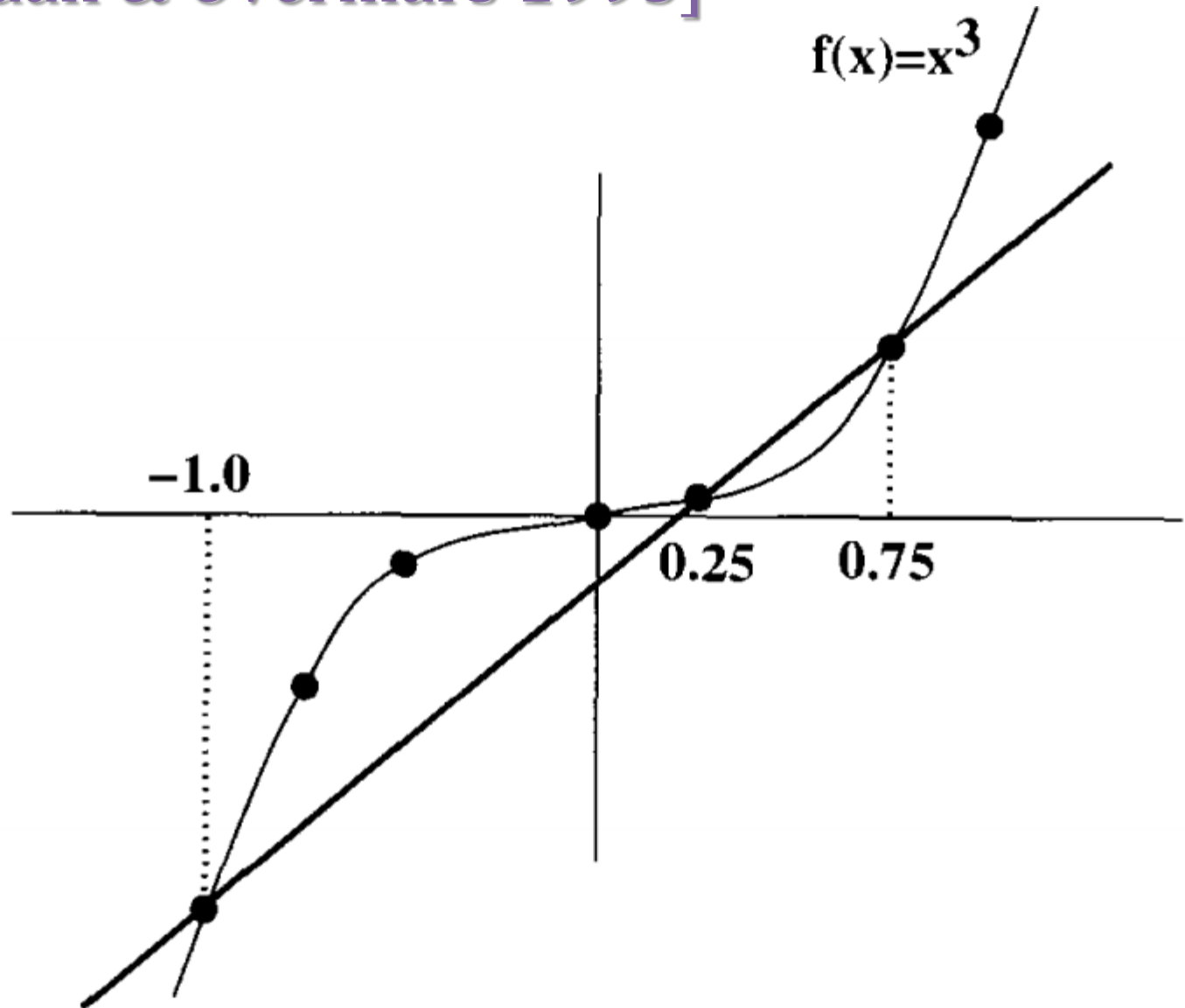
3SUM' \rightarrow GeomBase

[Gajentaan & Overmars 1995]



3SUM → 3 points on line

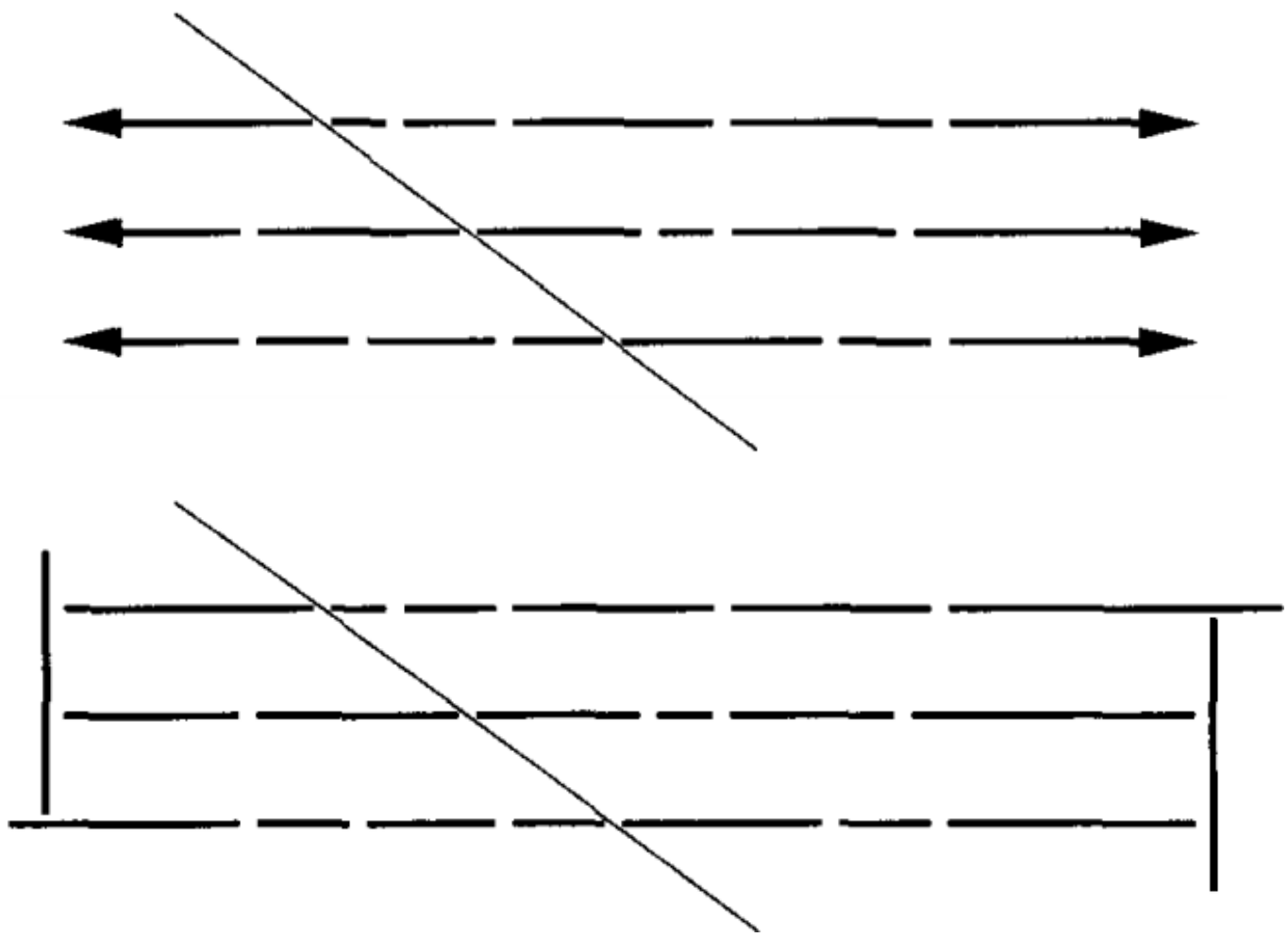
[Gajentaan & Overmars 1995]





GeomBase → Separator

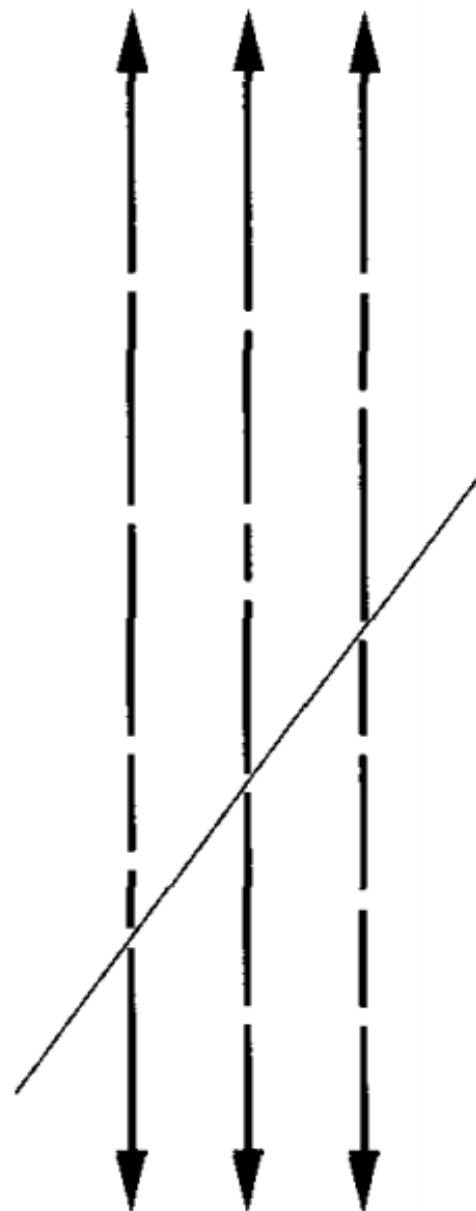
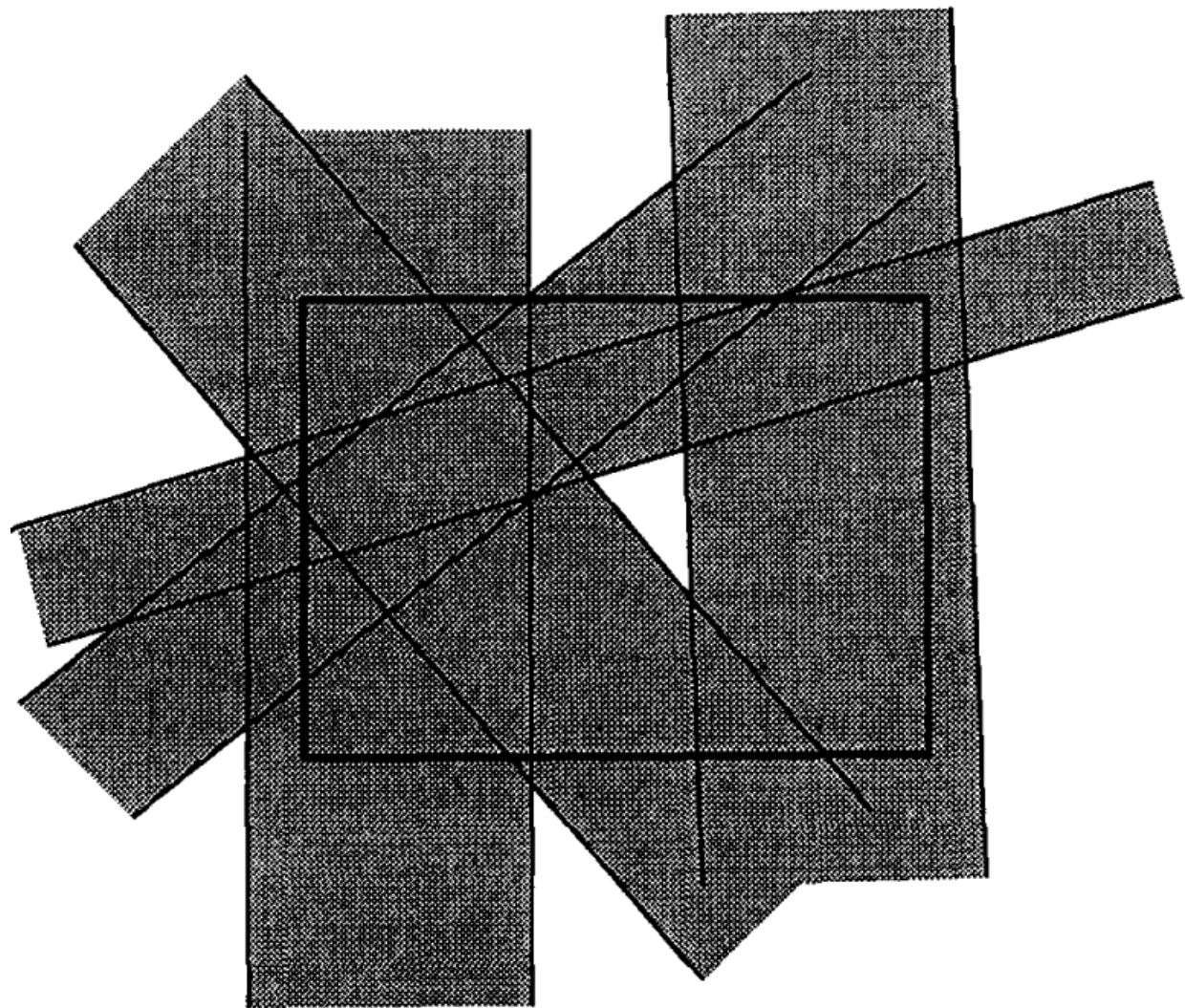
[Gajentaan & Overmars 1995]





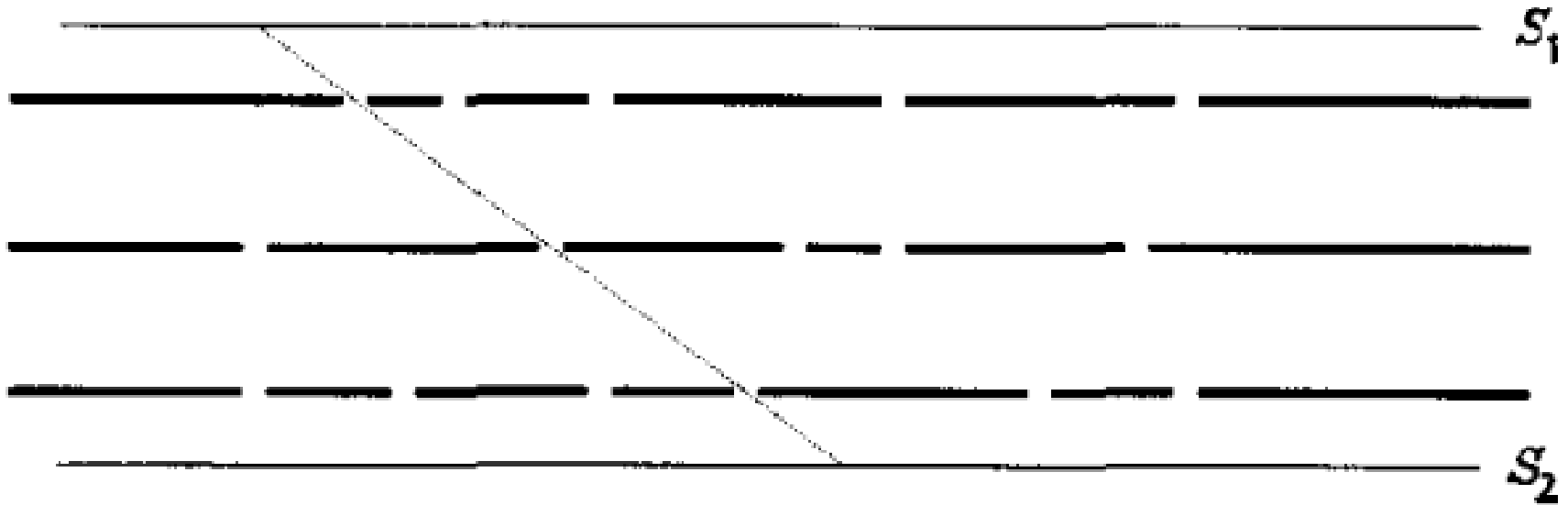
GeomBase → Strips cover box

[Gajentaan & Overmars 1995]





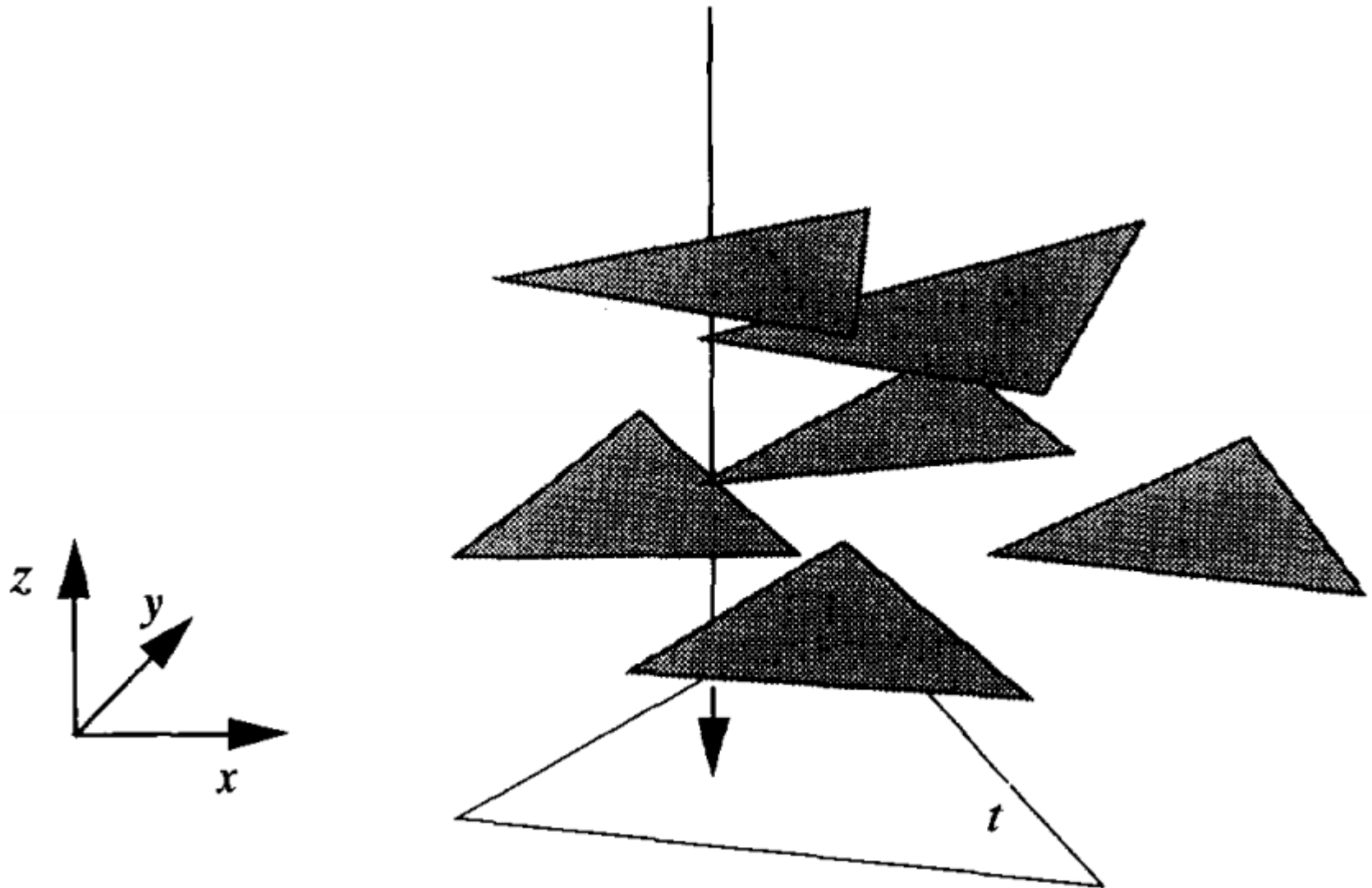
GeomBase → Visibility between segments [Gajentaan & Overmars 1995]





Triangles cover triangle \rightarrow Visible triangle

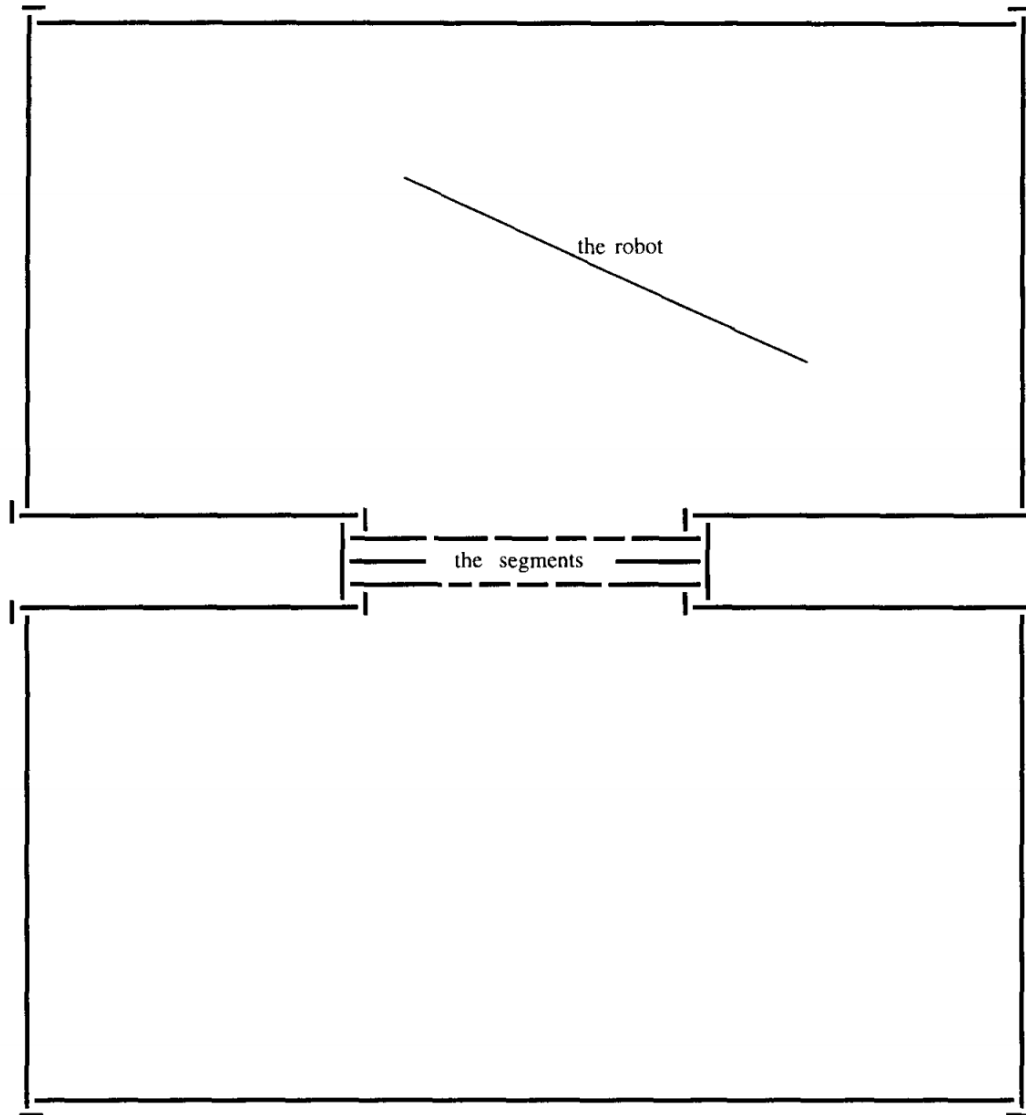
[Gajentaan & Overmars 1995]



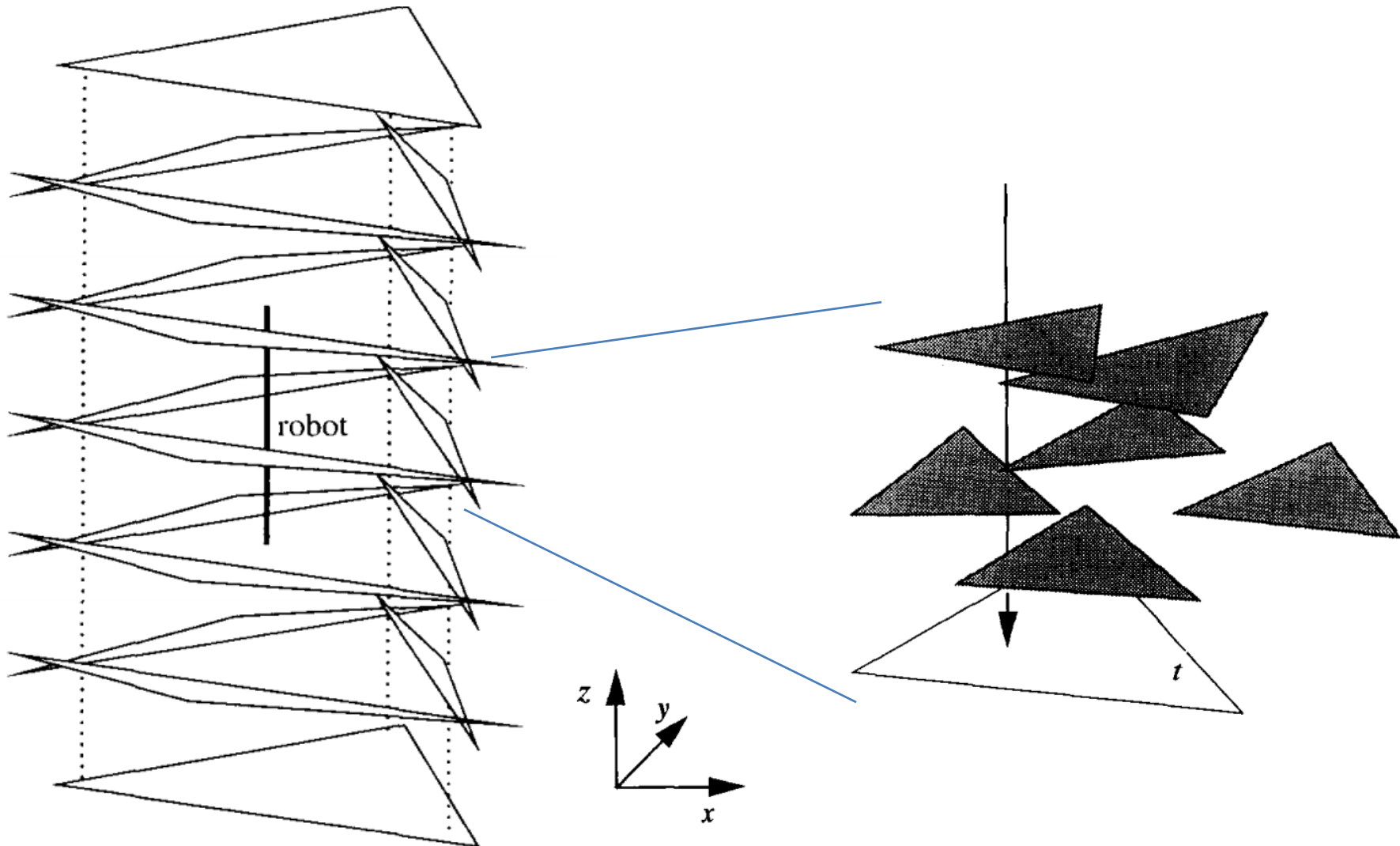


GeomBase → Planar motion planning

[Gajentaan & Overmars 1995]

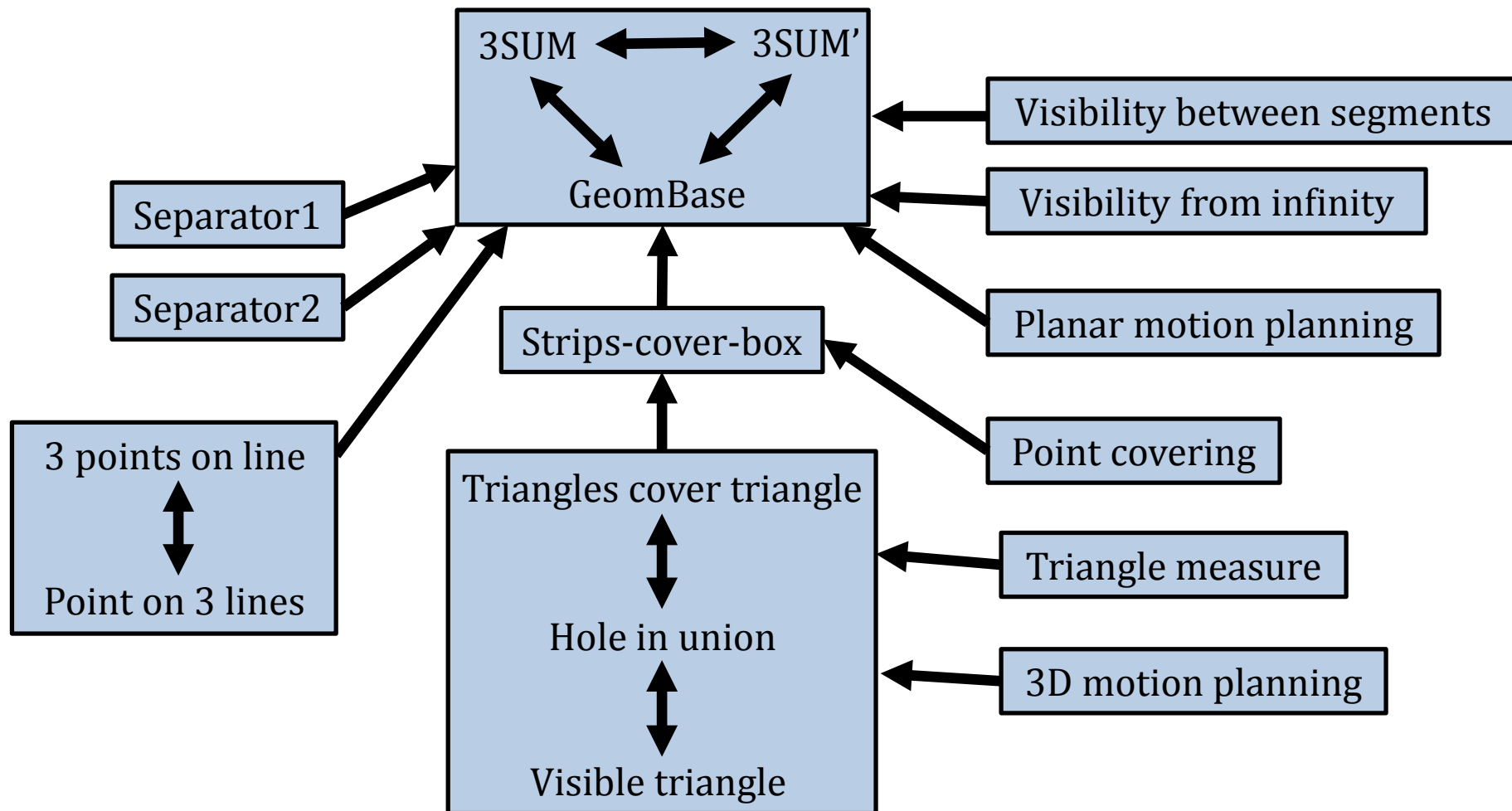


Triangles cover triangle \rightarrow 3D motion planning [Gajentaan & Overmars 1995]



3SUM-hard problems

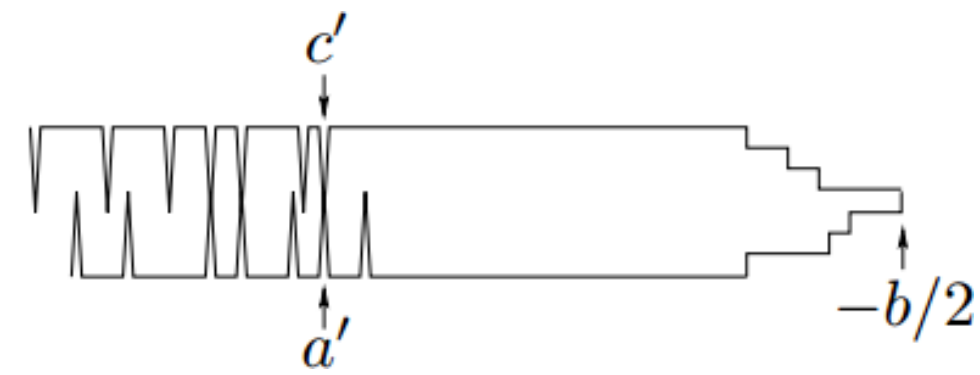
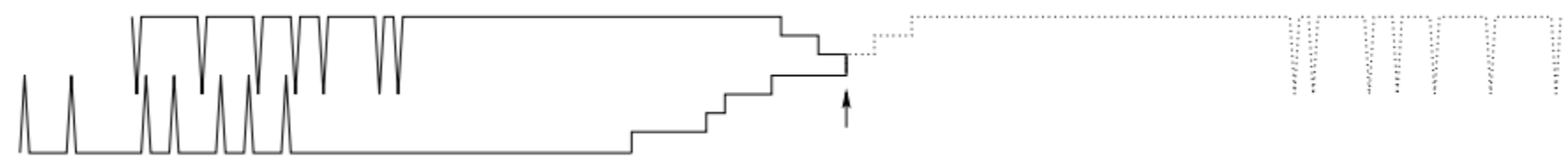
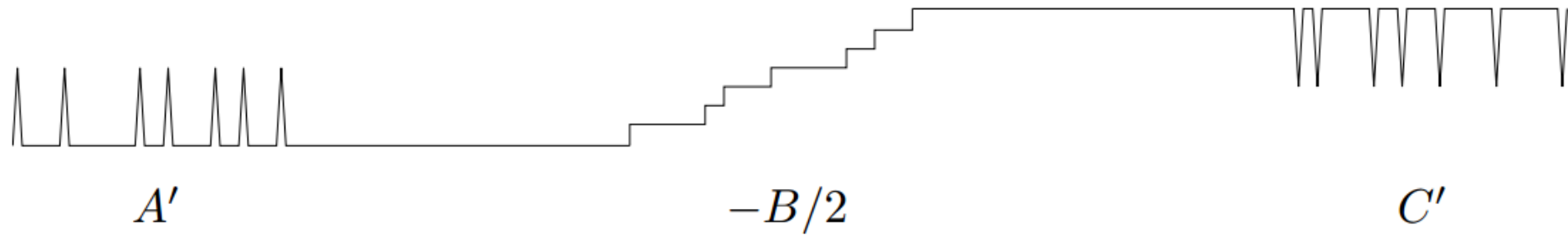
[Gajentaan & Overmars 1995]





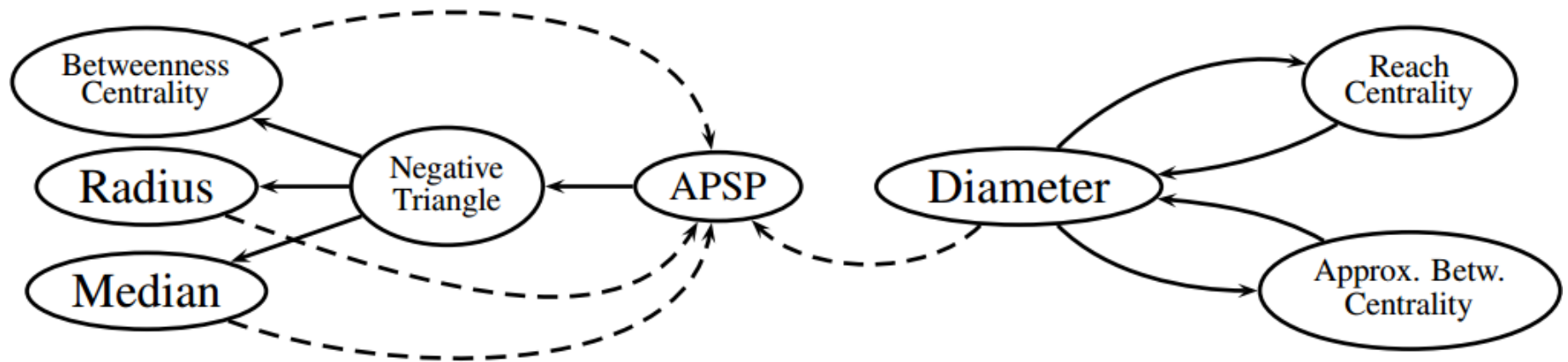
3SUM' → Fixed-Angle Chains

[Soss, Erickson, Overmars 2003]



Subcubic Reductions

[Abboud, Grandoni, Vassilevska Williams 2015]



Subcubic Reductions

[Abboud, Grandoni, Vassilevska Williams 2015]

