## Pairwise Triangles Intersections in a Query Rectangle

- Homothetic Triangles

- Problem: Given a set of homothetic right-angled triangles, find all pairs of triangles intersecting in a query rectangle.
- Present a solution with $O(n \log n)$ space and $O(\log n+k)$ query time.
- categorize the required pairs into five configurations.
- design a data structure for each configuration.

