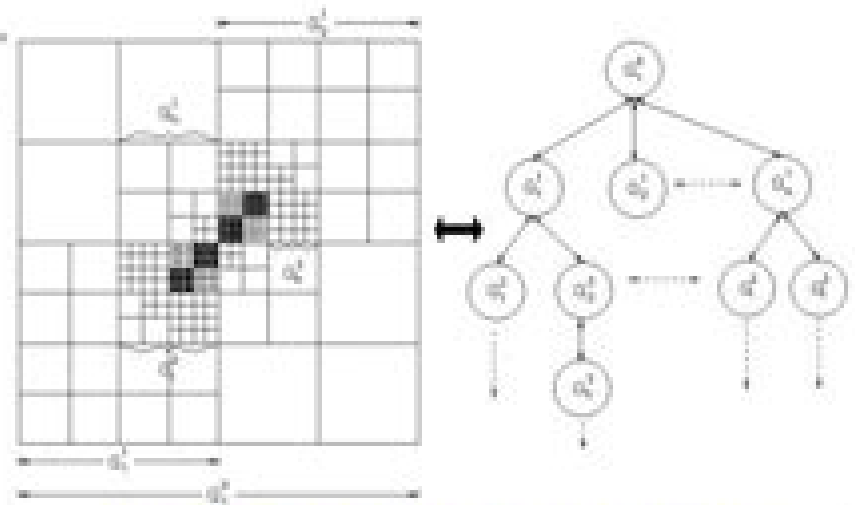


Partitioning Adaptive Grid Hierarchies

Adaptive Mesh Refinement

- *Start with a base coarse grid with minimum acceptable resolution*
- *Tag regions in the domain requiring additional resolution, cluster the tagged cells, and fit finer grids over these clusters*
- *Proceed recursively so that regions on the finer grid requiring more resolution are similarly tagged and even finer grids are overlaid on these regions*
- *Resulting grid structure is a dynamic adaptive grid hierarchy*



The Berger-Oliger Algorithm

Recursive Procedure Integrate(level)

If (RegridTime) Regrid

Step Δt on all grids at level "level"

If (level + 1 exists)

Integrate (level + 1)

Update(level, level + 1)

End if

End Recursion

level = 0

Integrate(level)

Efficient Partitioning Of Dynamic Structured Grid Hierarchies

Franco P. Preparata, Qizhi Fang



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