**Providing better interoperability between programming models to achieve scalable performance on extreme-scale systems**

- **Co-design methodology**
  - define interoperability requirements, implement+evaluate, drive new requirements
  - work with real applications

- **Resource Manager testbed**
  - experiment with, demonstrate and standardize node-local resource management for interoperability

- **Engagement with HPC community**
  - standards bodies
  - courses, workshops and Best Practice Guides
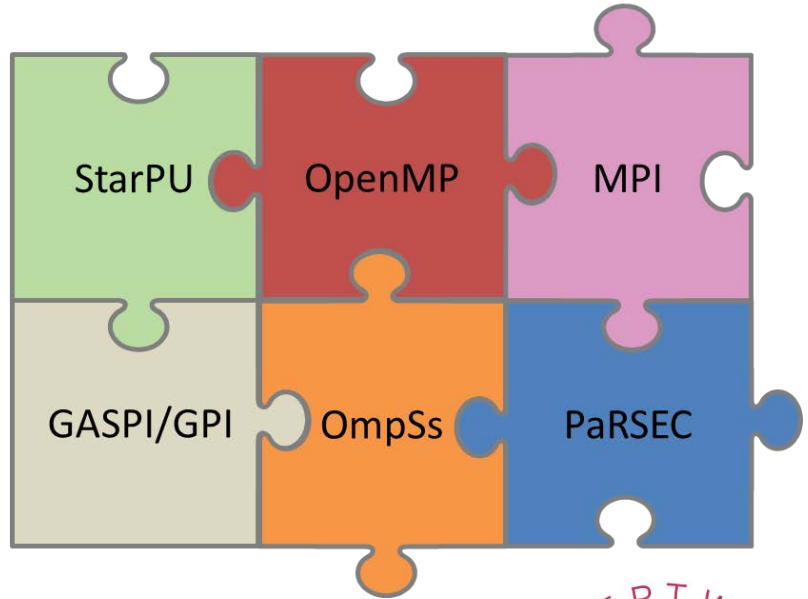
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Linear Algebra

CFD

Space Plasma

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INTERTWinE