

### **Rusty Green Kernel**

Fast Green's function evaluations taking advantage of SIMD instructions and parallel multithreading

### **Rusty Translation**

Trait based library for algebraic and analytical potential translation operators.

### **Rusty Compression**

Randomised techniques for high performance low rank compression

### **Rusty Tree**

MPI accelerated adaptive octrees for data partitioning with automated load balancing.

### **Rusty FMM**

MPI accelerated Kernel Independent FMM, with composable translation operators.

### **Rusty Inverse**

MPI accelerated algorithms for approximating the matrix inverse of rank structured matrices using fast algorithms.

Local



Cluster



Cloud



### **Rusty Fast Solvers**

Common fast algorithm interface. Easy deployment on any platform with wrappers to user friendly high-level languages.