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Glide symmetry protected topological phases in interacting bosons and fermions 1 FUYAN LU, BOWEN SHI, YUAN-MING LU, Ohio State Univ - Columbus — We classify and construct glide symmetry protected topological (GSPT) phases of interacting bosons and fermions in three dimensions. We focus on the systems with U(1) charge conservation and/or time reversal symmetry. Using a stacked plane construction, we also identify the anomalous surface topological orders of these GSPT phases, one example being the hourglass fermions in three-dimensional glide-protected topological insulator.

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