## young\_tableau + number\_of\_parts: int + number\_of\_rows: int + number\_of\_columns: List[int] + print(): None + to\_text(): None + get\_all\_options(): List[standard\_tableau] standard\_tableau + permutation\_group: int + help: function\_combination + spatial\_parts: List[spatial\_part] + spin\_parts: List[spin\_part] + print(): None + to\_text(): None + solve(): function + get\_spatial\_choices(): List[spatial\_part] + calculate\_all\_overlap\_integrals(List[integral\_part): List[function] + calculate\_all\_hamilton\_integrals(List[integral\_part): List[function] + get\_spin\_choices(): List[spin\_part] function\_combination + tableau\_a: integral\_part + tableau\_b: integral\_part + calculate\_overlap\_integral(a:integral\_part, b:integral\_part): function + calculate\_hamilton\_integral(a:integral\_part, b:integral\_part): function

## permutation\_group + permutation group: int + tableaus: List[young\_tableaus] + tableaus: List[List[standard\_tableau] + overview: overview\_pdf + permutation\_group: int + print(): None + file\_type: str + find\_tableaus(): List[young\_tableau] + save(title: str): None + get\_overview\_pdf(title: str): None + add information(additional info: str): None + get\_all\_standard\_tableaus(self.tableaus: List[young\_tableaus]): List[standard\_tableau] + calculate\_all\_overlap\_integrals(List[integral\_part): List[function] + calculate\_all\_hamilton\_integrals(List[integral\_part): List[function] + setup\_matrix(): str

overview\_pdf

