Calculation of the transition probabilities of superfluid Fermi gas with orbital angular momentum $l=1$ at low temperatures

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Abstract
The ultracold atoms fermion gas such as $^6$Li undergo superfluidity state. The transport quantities of these fluids have a direct dependence on the transition probabilities. Here, by obtaining possible processes in $p$-wave superfluid, we have shown that only binary processes are dominate at low temperatures.

Keywords: superfluid Fermi gas, orbital angular momentum, binary processes

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