

```

RRk_-[ai_-, aj_-] /; τ[ai] == τ[aj] == "a" := Uk[aj, ai];
RRk_-[ai_-, Aj_-[n_-]] /; τ[ai] == "a" ∧ τ[Aj] == "A" := Uk[Aj[n], ai];
RRk_-[Ai_-[m_-], Aj_-[n_-]] /; τ[Ai] == τ[Aj] == "A" := Uk[Aj[n], Ai[m]];
RRk_-[am_-, xij_-] /; τ[am] == "a" ∧ τ[xij] == "x" := Module[{i, j, m},
  {i, j} = ℒ@xij; {m} = ℒ@am;
  Uk[xij, am] + γ (δm,i - δm+1,i - δm,j + δm+1,j) Uk[xij] / 2
];
RRk_-[Am_-[n_-], xij_-] /; τ[Am] == "A" ∧ τ[xij] == "x" := Module[{i, j, m},
  {i, j} = ℒ@xij; {m} = ℒ@Am; q-n (δm,i - δm+1,i - δm,j + δm+1,j) Uk[xij, Am[n]]
]

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