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# unknotting sequences of Reidemeister moves containing unmatched RII moves

[Chuichiro](#)

[Hayashi, Miwa](#)

Hayashi, Minori  
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*(Submitted on 17  
Nov 2010)*

Arnold  
introduced  
invariants  
 $J^+$ ,  
 $J^-$   
and  $St$   
for