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# Central limit theorem for biased random walk on multi-type Galton-Watson trees

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(Submitted on 17  
Nov 2010)

Let  $T$  be a rooted multi-type Galton-Watson (MGW)

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tree of  
finitely  
many  
types  
with at  
least  
one  
offspring  
at each  
vertex,  
and an  
offspring  
distribution  
with  
exponential  
tails.

The  
lambda-  
biased  
random  
walk  
( $X_t$ ,  
 $t \geq 0$ ) on  
 $T$  is the  
nearest-  
neighbor  
random  
walk