The background of report2

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December 2019

1 MD11 with energy transfer failure (character represent)

Age of Information : aoi
threshold: w
probability of transfer failure: $0 <= p <= 1$
T_i : amount
λ: lambda

2 The spirit of matlab code

1. Set rand(r):
if r > p
transfer success
else
transfer fails
rt1 represents the "waiting time"; waiting time means $w + n \times A$

2. if $a <= rt1$
rt1 = rt1 - a
if a > rt1
we can calculate the aoi in this part