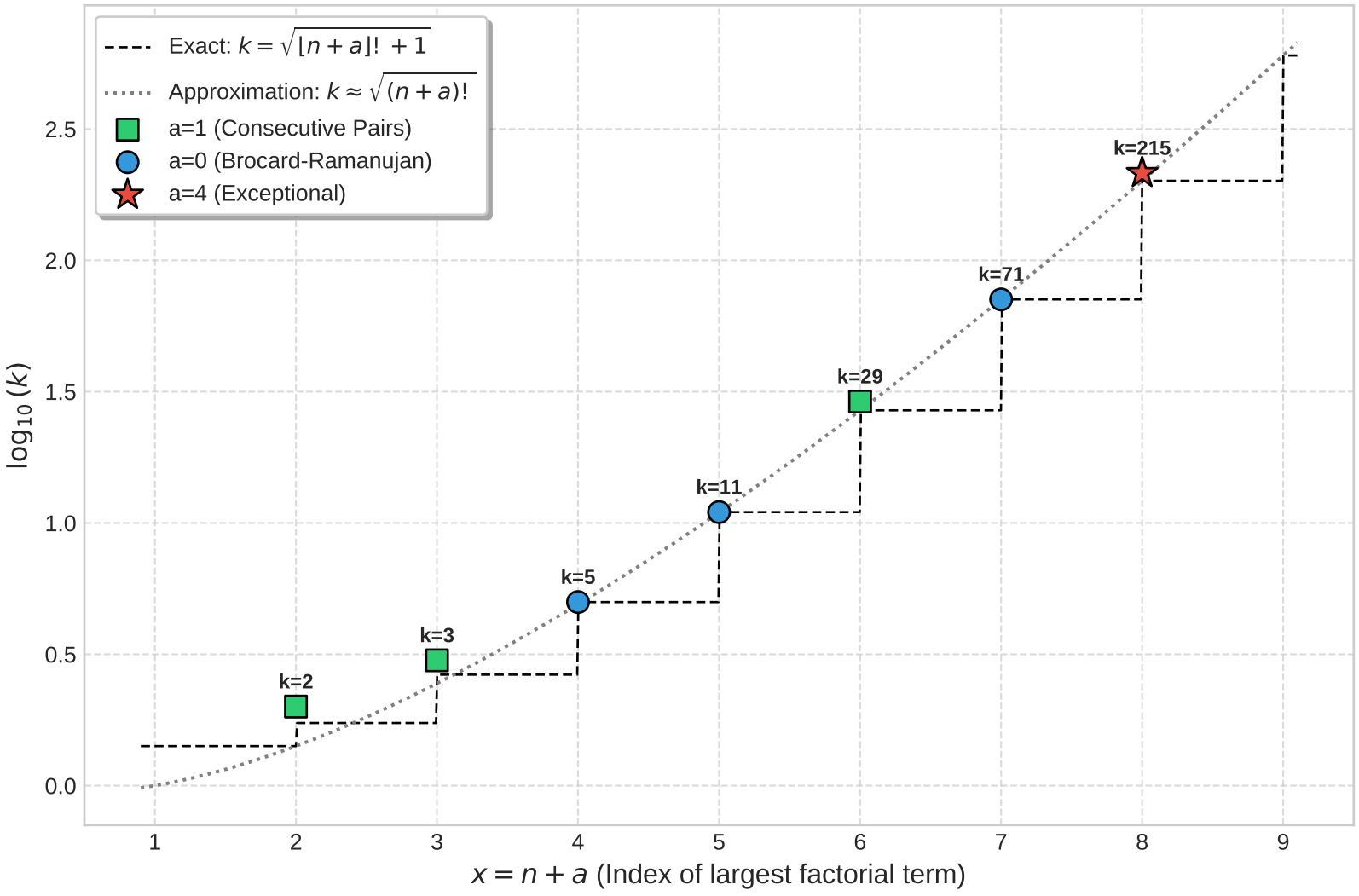
All Known Solutions Follow the Theoretical Magnitude Curve
Exact: $k = \sqrt{\lfloor n + a \rfloor! + 1}$
Approximation: $k \approx \sqrt{(n + a)!}$
a=1 (Consecutive Pairs)
a=0 (Brocard-Ramanujan)
a=4 (Exceptional)
k=2
k=3
k=5
k=11
k=29
k=71
k=215
$\log_{10}(k)$
0.0
0.5
1.0
1.5
2.0
2.5
1
2
3
4
5
6
7
8
9
$x = n + a$ (Index of largest factorial term)