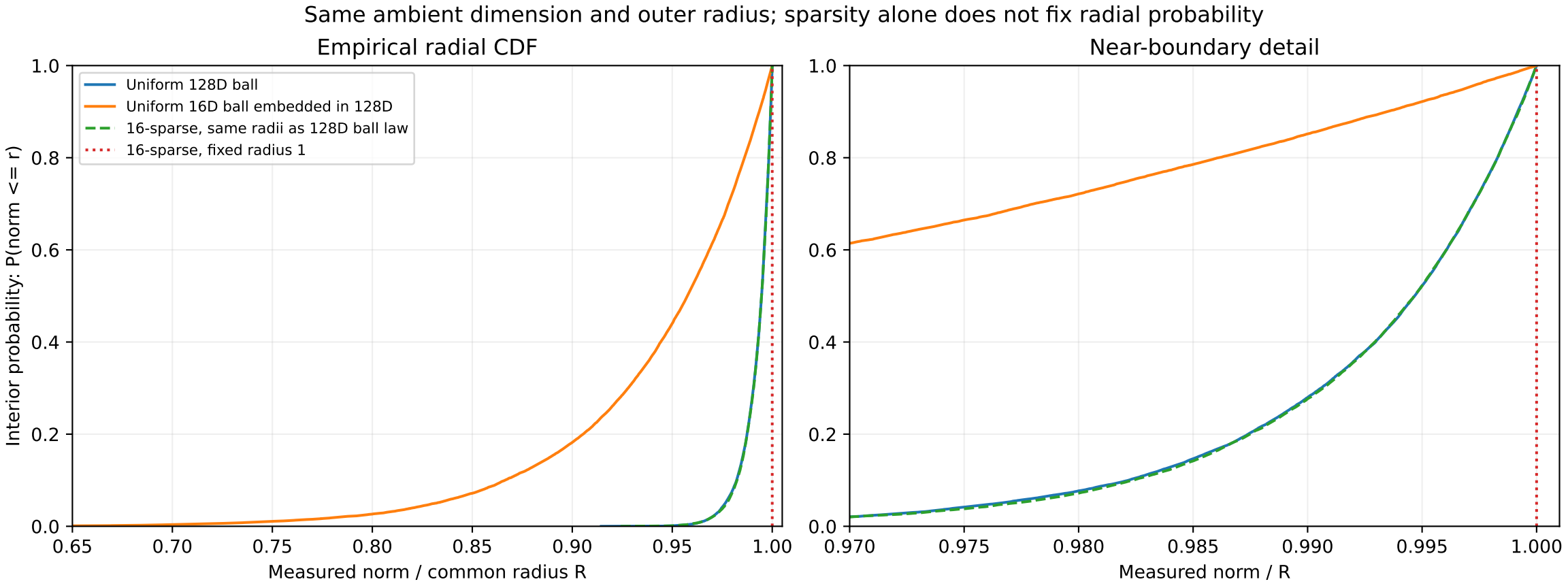

Same ambient dimension and outer radius; sparsity alone does not fix radial probability
Empirical radial CDF
Near-boundary detail
Uniform 128D ball
Uniform 16D ball embedded in 128D
16-sparse, same radii as 128D ball law
16-sparse, fixed radius 1
Interior probability: P(norm <= r)
Measured norm / common radius R
Measured norm / R
0.0
0.2
0.4
0.6
0.8
1.0
0.65
0.70
0.75
0.80
0.85
0.90
0.95
1.00
0.970
0.975
0.980
0.985
0.990
0.995
1.000