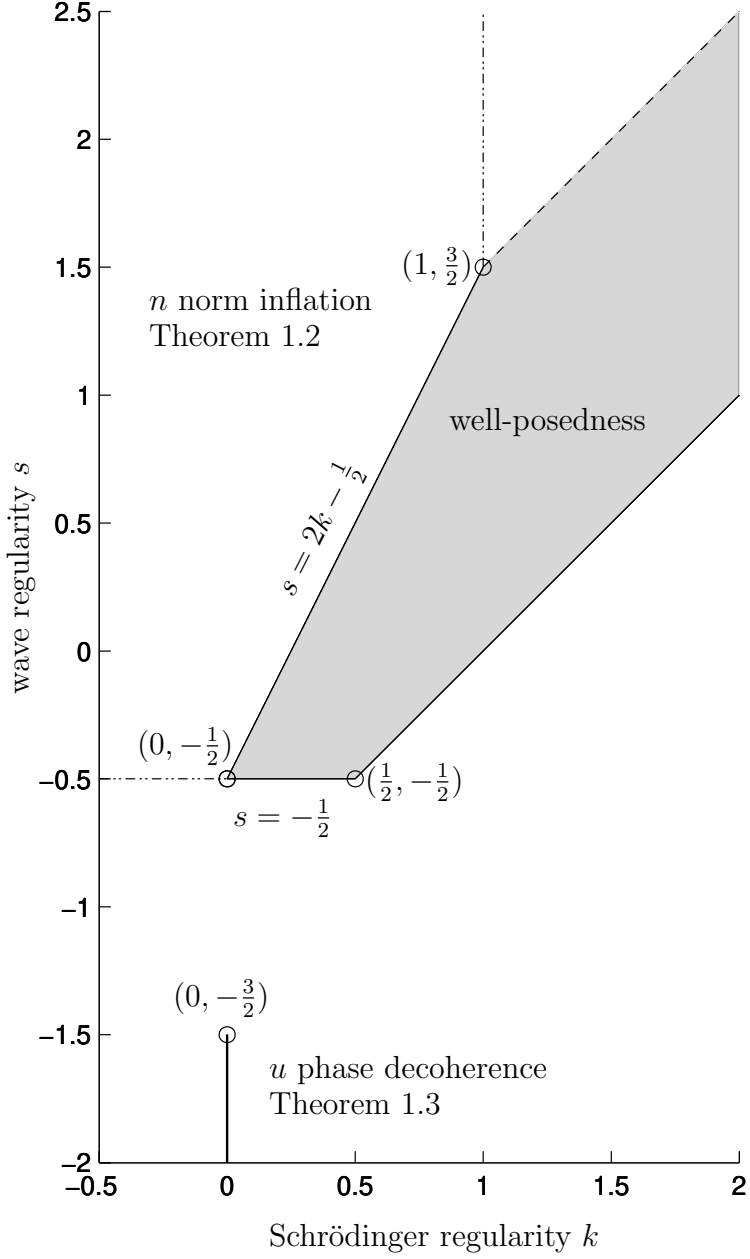
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−0.5
0
0.5
1
1.5
2
wave regularity s
Schrödinger regularity k
n norm inflation
Theorem 1.2
well-posedness
$s = 2k - \frac{1}{2}$
$(1, \frac{3}{2})$
$(0, -\frac{1}{2})$
$(\frac{1}{2}, -\frac{1}{2})$
$s = -\frac{1}{2}$
$(0, -\frac{3}{2})$
u phase decoherence
Theorem 1.3