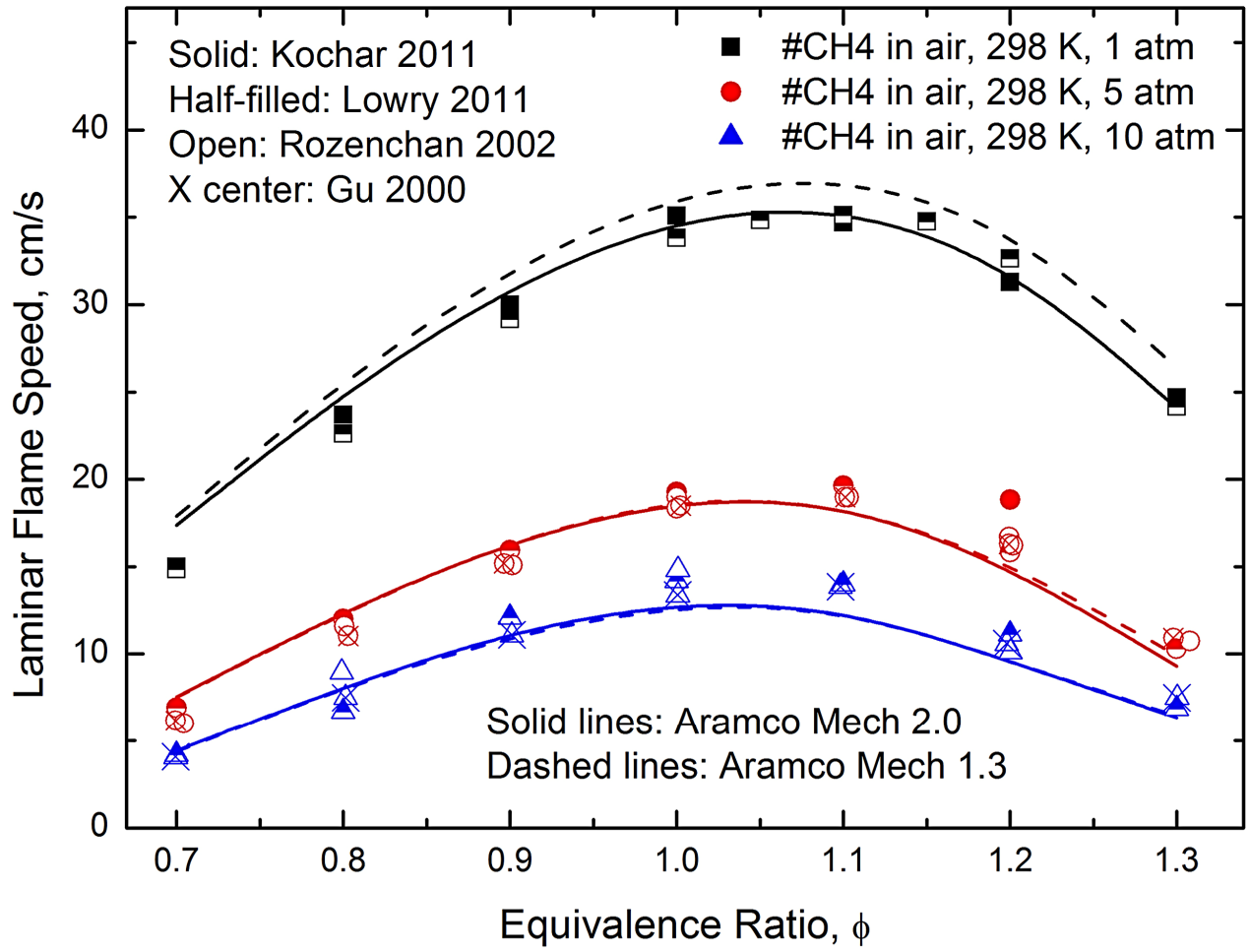
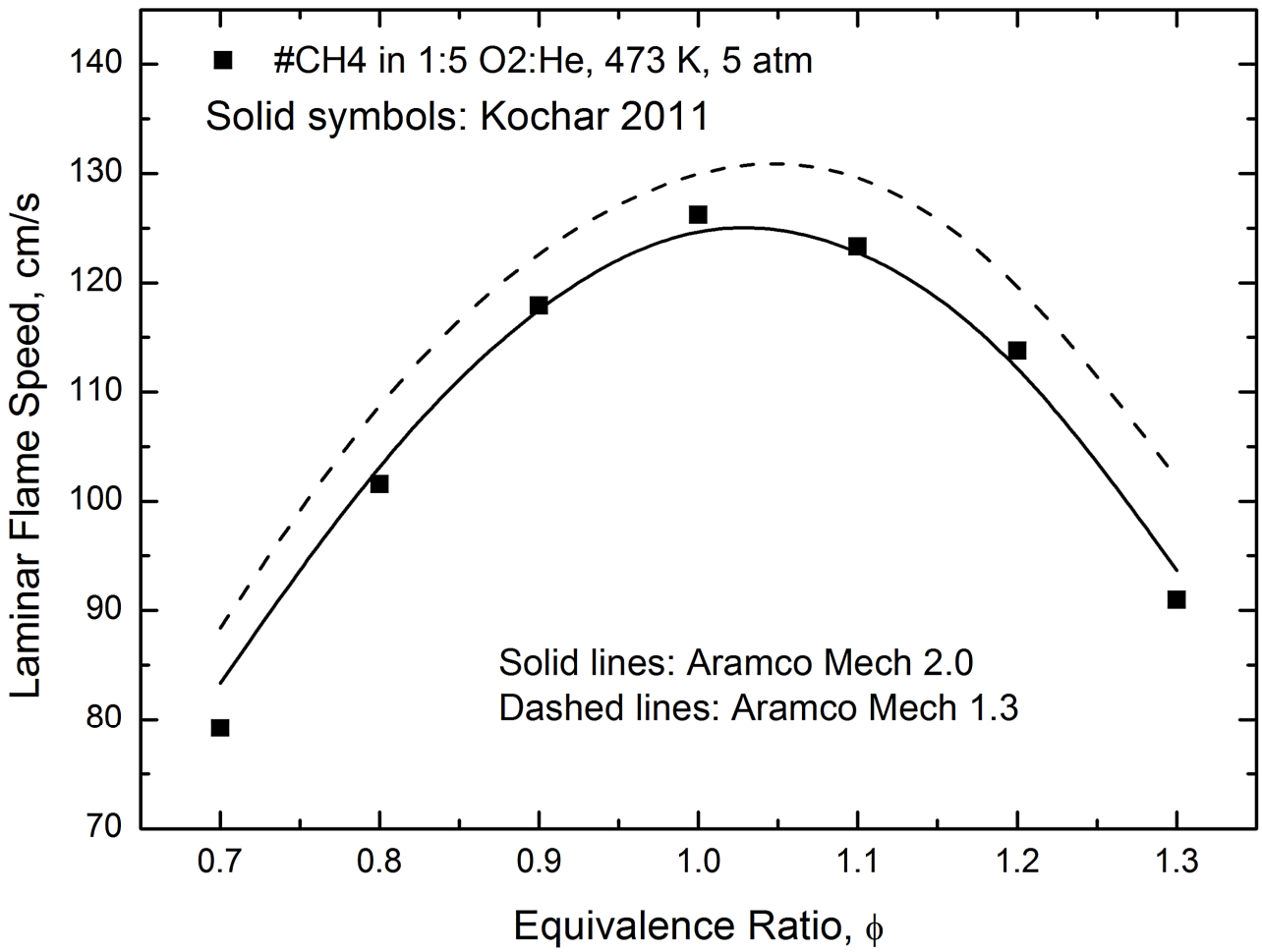

Solid: Kochar 2011
Half-filled: Lowry 2011
Open: Rozenchan 2002
X center: Gu 2000
#CH4 in air, 298 K, 1 atm
#CH4 in air, 298 K, 5 atm
#CH4 in air, 298 K, 10 atm
Solid lines: Aramco Mech 2.0
Dashed lines: Aramco Mech 1.3
Laminar Flame Speed, cm/s
Equivalence Ratio, ϕ
0
10
20
30
40
0.7
0.8
0.9
1.0
1.1
1.2
1.3


#CH4 in 1:5 O2:He, 473 K, 5 atm
Solid symbols: Kochar 2011
Solid lines: Aramco Mech 2.0
Dashed lines: Aramco Mech 1.3
Laminar Flame Speed, cm/s
Equivalence Ratio, ϕ
70
80
90
100
110
120
130
140
0.7
0.8
0.9
1.0
1.1
1.2
1.3