Table 1: Report on the L_1 errors of the S^1IIOE(stabilized) and the FLIIOE(flux limited) schemes for a smooth hump, $\tau = h$.

n	S^1IIOE L_1error	S^1IIOE EOC	FLIIOE L_1error	FLIIOE EOC
40	9.82 10^{-2}		7.51 10^{-2}	
80	3.38 10^{-2}	1.54	2.66 10^{-2}	1.50
160	1.01 10^{-2}	1.74	7.55 10^{-3}	1.82
320	2.73 10^{-3}	1.89	1.96 10^{-3}	1.95
640	7.11 10^{-4}	1.94	5.22 10^{-4}	1.91
1280	1.83 10^{-4}	1.96	1.41 10^{-4}	1.89

Table 2: Report on the L_1 errors of the S^1IIOE(stabilized) and the FLIIOE(flux limited) schemes for a discontinous piecewise profile, $\tau = h$.

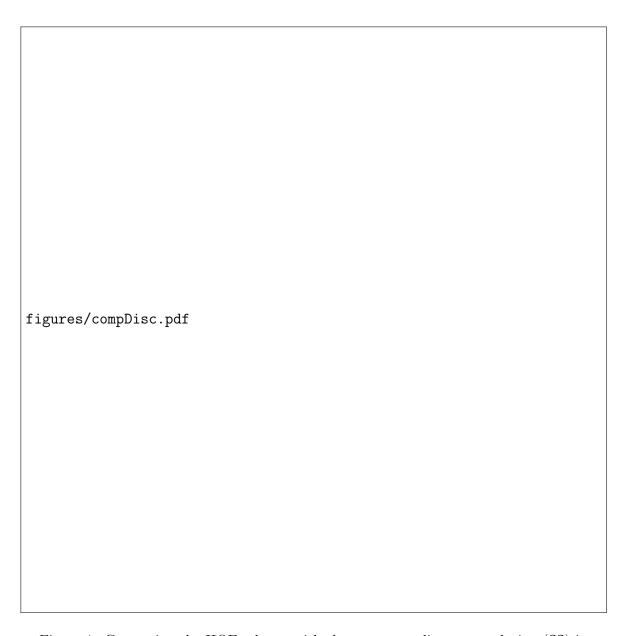| n	S^1IIOE L_1error	S^1IIOE EOC	FLIIOE L_1error	FLIIOE EOC
40	2.03 10^{-1}		1.49 10^{-1}	
80	1.31 10^{-1}	0.63	9.4 10^{-2}	0.66
160	8.38 10^{-2}	0.64	5.91 10^{-2}	0.67
320	5.35 10^{-2}	0.65	3.72 10^{-2}	0.67
640	3.41 10^{-2}	0.65	2.35 10^{-2}	0.66
1280	2.16 10^{-2}	0.66	1.48 10^{-2}	0.67

figures/compDisc.pdf

Figure 1: Comparing the IIOE scheme with the exact traveling-wave solution (**??**) in time $t = 0.24$ (left) and $t = 0.48$ (right), with $\sigma = 0.01$, $n = 100$, $\tau = 4h$