

A =

	V	alpha	q	theta	H
beta	phi	p	r		
V	-0.0046425	0.081854	-2.3006e-12	-0.17116	8.4244e-05
6.2554e-21	0	0	-2.9582e-26		
alpha	-0.021219	-0.60766	0.98887	-6.6425e-12	0.00038504
0	0	0	0		
q	-8.1401e-18	-2.7135	-0.56339	0	1.4771e-19
0	0	0	0		
theta	0	0	1	0	0
0	-1.5824e-31	0	-4.3721e-20		
H	3.2398e-46	4.0169	0	-4.0169	0
1.7554e-19	0	0	0		
beta	-5.3952e-22	-3.1056e-28	0	-5.8664e-23	2.7578e-24
-0.10609	0.042588	0.031016	-0.99266		
phi	0	0	1.3775e-21	1.584e-31	0
0	-5.4281e-36	1	0.031506		
p	-9.7229e-19	0	0	0	1.7644e-20
-8.0867	0	-1.9289	0.33912		
r	-4.304e-20	0	0	0	7.8102e-22
2.031	0	-0.072236	-0.35662		

B =

	Tle	Tre	ih	delta_a	delta_r
V	1.7919e-05	1.7919e-05	0.01059	0	0
alpha	1.5224e-08	1.5224e-08	-0.088298	0	0
q	2.2715e-06	-2.2715e-06	-6.3111	0	0
theta	0	0	0	0	0
H	0	0	0	0	0
beta	-1.1681e-07	1.1681e-07	-6.0185e-31	-0.0010741	0.026171
phi	0	0	0	0	0
p	0.00034484	-0.00034484	0	-6.753	1.2499
r	1.5916e-05	-1.5916e-05	0	-0.29783	-1.4832