

z0 =

0

t0 =

0

dz =

0.2

dt =

0.01

zf =

2

tf =

0.1

c =

1.79

r =

0.4475

n =

10

m =

10

z =

Columns 1 through 10

0

0.2

0.4

0.6

0.8

1

1.2 ↵

1.4 1.6 1.8

Column 11

2

t =

Columns 1 through 10

	0	0.01	0.02	0.03	0.04	0.05	0.06 ✓
0.07	0.08	0.09					

Column 11

0.1

u =

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

u =

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0	0	0	0	0	0 ✓

16
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16

i =

2 3 4 5 6 7 8 9 10

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0.05896	0.21392	0.56088	1.1958	2.2148	3.7138 ✓
5.7887	8.5357	12.051					
	0	0.10192	0.29984	0.68976	1.3677	2.4296	3.9715 ✓
6.0894	8.8794	12.245					
	0	0.14488	0.38576	0.81864	1.5395	2.6444	4.2293 ✓
6.3902	9.137	12.419					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓

Column 11

16
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i =

2 3 4 5 6 7 8 9 10

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0.05896	0.21392	0.56088	1.1958	2.2148	3.7138 ✓
5.7887	8.5357	12.051					
	0	0.10192	0.29984	0.68976	1.3677	2.4296	3.9715 ✓
6.0894	8.8794	12.245					
	0	0.14488	0.38576	0.81864	1.5395	2.6444	4.2293 ✓
6.3902	9.137	12.419					
	0	0.18784	0.47168	0.94752	1.7114	2.8592	4.487 ✓
6.6524	9.3766	12.553					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓

Column 11

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i =

2 3 4 5 6 7 8 9 10

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0.05896	0.21392	0.56088	1.1958	2.2148	3.7138 ✓
5.7887	8.5357	12.051					
	0	0.10192	0.29984	0.68976	1.3677	2.4296	3.9715 ✓
6.0894	8.8794	12.245					

	0	0.14488	0.38576	0.81864	1.5395	2.6444	4.2293 ✓
6.3902	9.137	12.419					
	0	0.18784	0.47168	0.94752	1.7114	2.8592	4.487 ✓
6.6524	9.3766	12.553					
	0	0.2308	0.5576	1.0764	1.8832	3.074	4.7276 ✓
6.9025	9.5789	12.674					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓

Column 11

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i =

2 3 4 5 6 7 8 9 10

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0.05896	0.21392	0.56088	1.1958	2.2148	3.7138 ✓
5.7887	8.5357	12.051					
	0	0.10192	0.29984	0.68976	1.3677	2.4296	3.9715 ✓
6.0894	8.8794	12.245					
	0	0.14488	0.38576	0.81864	1.5395	2.6444	4.2293 ✓
6.3902	9.137	12.419					
	0	0.18784	0.47168	0.94752	1.7114	2.8592	4.487 ✓
6.6524	9.3766	12.553					
	0	0.2308	0.5576	1.0764	1.8832	3.074	4.7276 ✓
6.9025	9.5789	12.674					
	0	0.27376	0.64352	1.2053	2.055	3.2811	4.9609 ✓
7.1269	9.7663	12.777					
	0	0	0	0	0	0	0 ✓

0	0	0						
	0	0	0	0	0	0	0	0 ✓
0	0	0						
	0	0	0	0	0	0	0	0 ✓
0	0	0						
	0	0	0	0	0	0	0	0 ✓
0	0	0						

Column 11

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i =

2 3 4 5 6 7 8 9 10

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0.05896	0.21392	0.56088	1.1958	2.2148	3.7138 ✓
5.7887	8.5357	12.051					
	0	0.10192	0.29984	0.68976	1.3677	2.4296	3.9715 ✓
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	0	0.14488	0.38576	0.81864	1.5395	2.6444	4.2293 ✓
6.3902	9.137	12.419					
	0	0.18784	0.47168	0.94752	1.7114	2.8592	4.487 ✓
6.6524	9.3766	12.553					
	0	0.2308	0.5576	1.0764	1.8832	3.074	4.7276 ✓
6.9025	9.5789	12.674					
	0	0.27376	0.64352	1.2053	2.055	3.2811	4.9609 ✓
7.1269	9.7663	12.777					
	0	0.31672	0.72944	1.3342	2.2234	3.4841	5.1785 ✓
7.3387	9.9326	12.872					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					

Column 11

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i =

2 3 4 5 6 7 8 9 10

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0.05896	0.21392	0.56088	1.1958	2.2148	3.7138 ✓
5.7887	8.5357	12.051					
	0	0.10192	0.29984	0.68976	1.3677	2.4296	3.9715 ✓
6.0894	8.8794	12.245					
	0	0.14488	0.38576	0.81864	1.5395	2.6444	4.2293 ✓
6.3902	9.137	12.419					
	0	0.18784	0.47168	0.94752	1.7114	2.8592	4.487 ✓
6.6524	9.3766	12.553					
	0	0.2308	0.5576	1.0764	1.8832	3.074	4.7276 ✓
6.9025	9.5789	12.674					
	0	0.27376	0.64352	1.2053	2.055	3.2811	4.9609 ✓
7.1269	9.7663	12.777					
	0	0.31672	0.72944	1.3342	2.2234	3.4841	5.1785 ✓
7.3387	9.9326	12.872					
	0	0.35968	0.81536	1.4615	2.3896	3.6782	5.387 ✓
7.5328	10.087	12.956					
	0	0	0	0	0	0	0 ✓
0	0	0					
	0	0	0	0	0	0	0 ✓
0	0	0					

Column 11

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i =

2 3 4 5 6 7 8 9 10

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0.05896	0.21392	0.56088	1.1958	2.2148	3.7138 ✓
5.7887	8.5357	12.051					
	0	0.10192	0.29984	0.68976	1.3677	2.4296	3.9715 ✓
6.0894	8.8794	12.245					
	0	0.14488	0.38576	0.81864	1.5395	2.6444	4.2293 ✓
6.3902	9.137	12.419					
	0	0.18784	0.47168	0.94752	1.7114	2.8592	4.487 ✓
6.6524	9.3766	12.553					
	0	0.2308	0.5576	1.0764	1.8832	3.074	4.7276 ✓
6.9025	9.5789	12.674					
	0	0.27376	0.64352	1.2053	2.055	3.2811	4.9609 ✓
7.1269	9.7663	12.777					
	0	0.31672	0.72944	1.3342	2.2234	3.4841	5.1785 ✓
7.3387	9.9326	12.872					
	0	0.35968	0.81536	1.4615	2.3896	3.6782	5.387 ✓
7.5328	10.087	12.956					
	0	0.40264	0.90059	1.5877	2.5509	3.8662	5.5825 ✓
7.7156	10.228	13.034					
	0	0	0	0	0	0	0 ✓
0	0	0					

Column 11

16
16
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16

i =

2 3 4 5 6 7 8 9 10

u =

Columns 1 through 10

	0	0.016	0.128	0.432	1.024	2	3.456 ✓
5.488	8.192	11.664					
	0	0.05896	0.21392	0.56088	1.1958	2.2148	3.7138 ✓
5.7887	8.5357	12.051					
	0	0.10192	0.29984	0.68976	1.3677	2.4296	3.9715 ✓
6.0894	8.8794	12.245					
	0	0.14488	0.38576	0.81864	1.5395	2.6444	4.2293 ✓
6.3902	9.137	12.419					
	0	0.18784	0.47168	0.94752	1.7114	2.8592	4.487 ✓
6.6524	9.3766	12.553					
	0	0.2308	0.5576	1.0764	1.8832	3.074	4.7276 ✓
6.9025	9.5789	12.674					
	0	0.27376	0.64352	1.2053	2.055	3.2811	4.9609 ✓
7.1269	9.7663	12.777					
	0	0.31672	0.72944	1.3342	2.2234	3.4841	5.1785 ✓
7.3387	9.9326	12.872					
	0	0.35968	0.81536	1.4615	2.3896	3.6782	5.387 ✓
7.5328	10.087	12.956					
	0	0.40264	0.90059	1.5877	2.5509	3.8662	5.5825 ✓
7.7156	10.228	13.034					
	0	0.44529	0.98524	1.7113	2.7085	4.0457	5.7691 ✓
7.8854	10.36	13.106					

Column 11

16
16
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16

ans =

Columns 1 through 10

	0	0	0	0	0	0	0 ✓
0	0	0					
	0.016	0.05896	0.10192	0.14488	0.18784	0.2308	0.27376 ✓
0.31672	0.35968	0.40264					
	0.128	0.21392	0.29984	0.38576	0.47168	0.5576	0.64352 ✓
0.72944	0.81536	0.90059					
	0.432	0.56088	0.68976	0.81864	0.94752	1.0764	1.2053 ✓
1.3342	1.4615	1.5877					
	1.024	1.1958	1.3677	1.5395	1.7114	1.8832	2.055 ✓

2.2234	2.3896	2.5509					
	2	2.2148	2.4296	2.6444	2.8592	3.074	3.2811 ✓
3.4841	3.6782	3.8662					
	3.456	3.7138	3.9715	4.2293	4.487	4.7276	4.9609 ✓
5.1785	5.387	5.5825					
	5.488	5.7887	6.0894	6.3902	6.6524	6.9025	7.1269 ✓
7.3387	7.5328	7.7156					
	8.192	8.5357	8.8794	9.137	9.3766	9.5789	9.7663 ✓
9.9326	10.087	10.228					
	11.664	12.051	12.245	12.419	12.553	12.674	12.777 ✓
12.872	12.956	13.034					
	16	16	16	16	16	16	16 ✓
16	16	16					

Column 11

0
0.44529
0.98524
1.7113
2.7085
4.0457
5.7691
7.8854
10.36
13.106
16

zlabel =

'distance'

tlabel =

'time'

>>