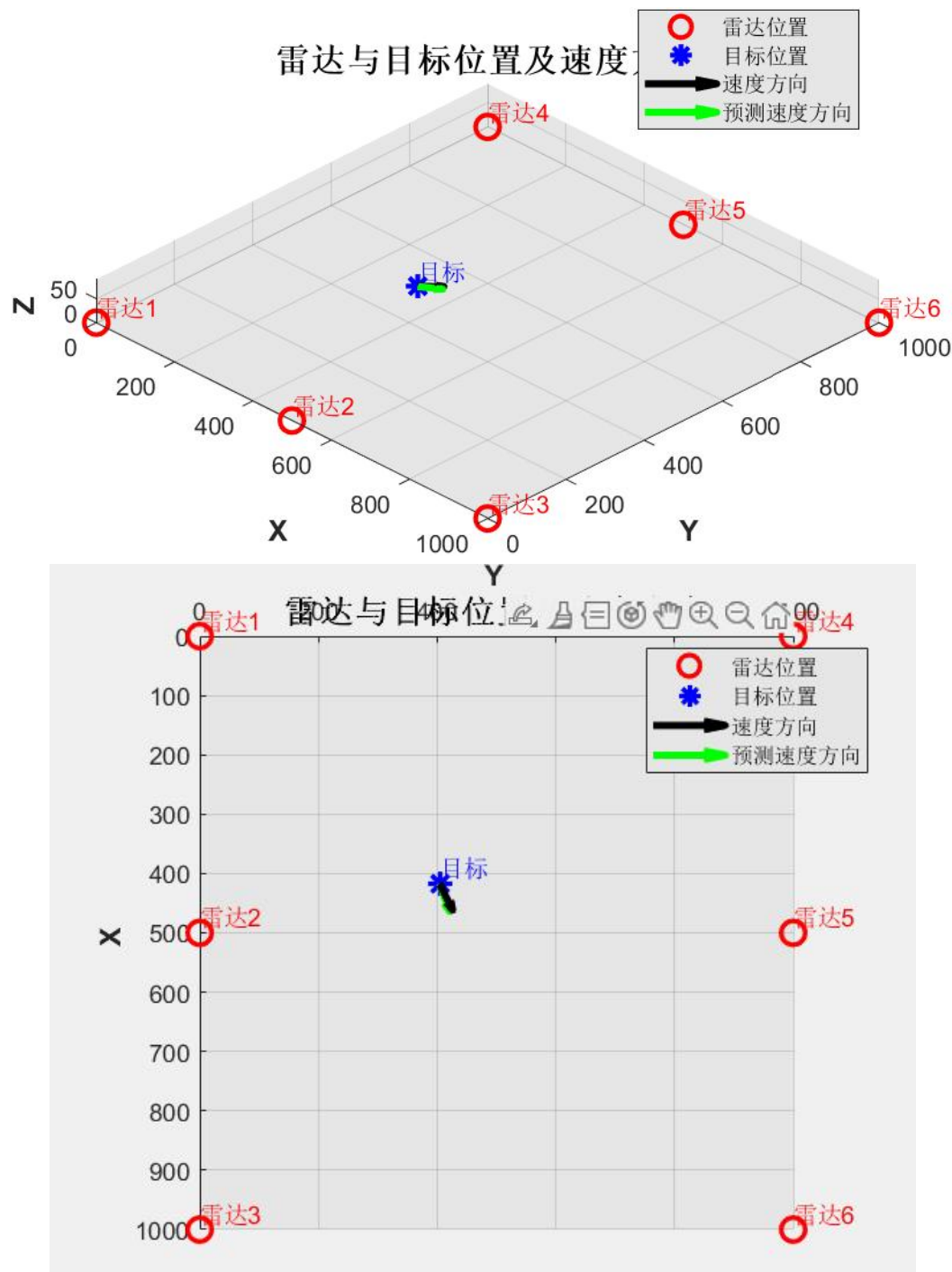
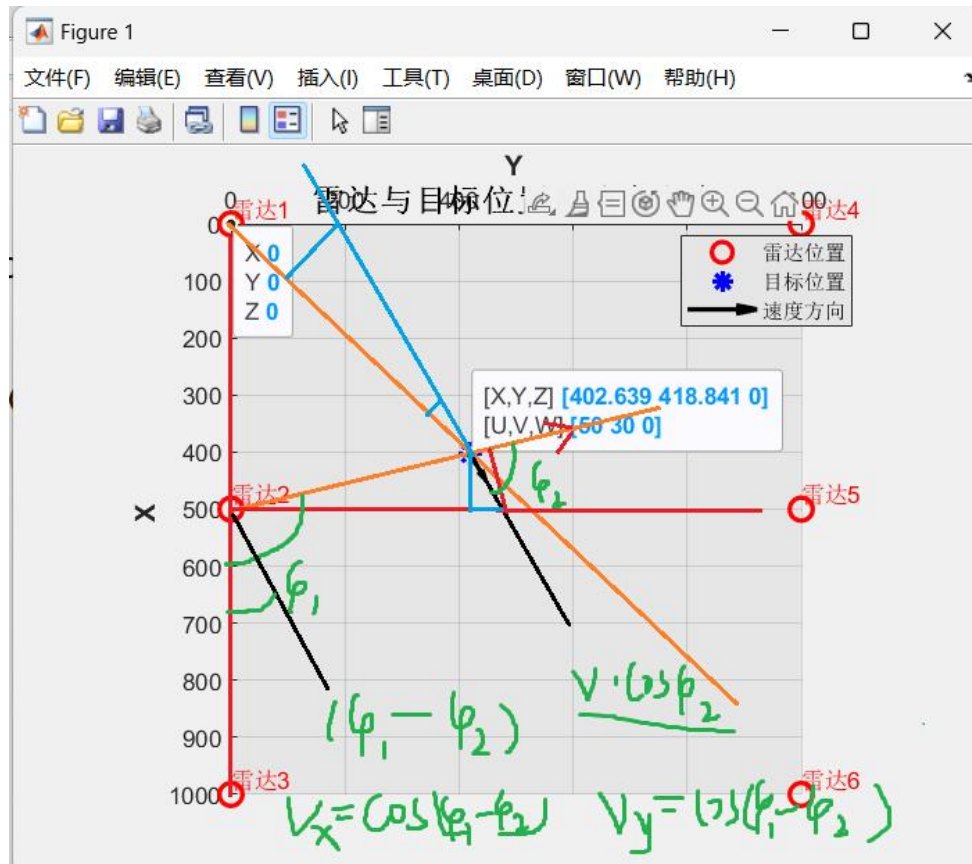


任务汇报：

雷达与目标关系图



还原过程



测量数据

设定的 V[50, 25,10]

目标位置为[400 + 20 * rand, 400 + 20 * rand, 80 + 4 * rand];

| 雷达编号 | 直线距离 (m) | 朝向雷达的速度 (m/s) |
|------|----------|---------------|
| 1 | 586.0639 | -54.1762 |
| 2 | 420.2198 | -16.0648 |
| 3 | 713.9317 | 25.5616 |
| 4 | 731.9019 | -9.2235 |
| 5 | 607.2842 | 30.0506 |
| 6 | 837.7995 | 51.6225 |

| 雷达编号 | 方位角 (度) | 俯仰角 (度) |
|------|-----------|---------|
| 1 | 44.0932 | 7.9348 |
| 2 | 101.6280 | 11.1003 |
| 3 | 145.2915 | 6.5068 |
| 4 | -55.0330 | 6.3464 |
| 5 | -97.9375 | 7.6558 |
| 6 | -134.3688 | 5.5415 |

| 雷达编号 | 相对位置 (X, Y, Z) | 直线距离 (m) |
|------|---------------------------------|----------|
| 1 | (416.8862, 403.8953, 80.9037) | 586.0639 |
| 2 | (-83.1138, 403.8953, 80.9037) | 420.2198 |
| 3 | (-583.1138, 403.8953, 80.9037) | 713.9317 |
| 4 | (416.8862, -596.1047, 80.9037) | 731.9019 |
| 5 | (-83.1138, -596.1047, 80.9037) | 607.2842 |
| 6 | (-583.1138, -596.1047, 80.9037) | 837.7995 |

测量的速度:

测量的速度: -54.0354

测量的速度: -14.1732

测量的速度: 26.5748

测量的速度: -7.9724

测量的速度: 31.2992

测量的速度: 52.5591

| 雷达编号 | Vx (m/s) | Vy (m/s) | Vz (m/s) |
|------|----------|----------|----------|
| 1 | 54.6892 | 13.1391 | 7.8395 |
| 2 | 49.3145 | 25.9527 | 10.9334 |
| 3 | 52.5652 | 20.5057 | 6.4354 |
| 4 | 51.7478 | 22.5335 | 6.2774 |
| 5 | 52.0336 | 21.4538 | 7.5656 |
| 6 | 55.2849 | 11.7689 | 5.4839 |

平均速度:

Vx (m/s): 52.6059

Vy (m/s): 19.2256

Vz (m/s): 7.4225