



## Космический мусор

### Задание А. Вращение (3.8 балла)

**A.1** (0.2 pt)

$$\omega_x =$$

$$\omega_y =$$

**A.2** (0.4 pt)

$$E_x =$$

$$E_y =$$

$$E(L, \theta) =$$

**A.3** (1.2 pt)

$$\psi =$$

**A.4** (2.0 pt)

$$\Omega(t) =$$

$$\gamma_s(t) =$$

$$\omega_s(t) =$$

### Задание В. Переходный процесс (1.2 балла)

**B.1** (0.6 pt)

$$\theta_2 =$$

**B.2** (0.6 pt)

$$\omega_2 =$$



## Задание С. Магнитное поле (5.0 баллов)

C.1 (1.0 pt)

$$\mu_x =$$

$$\mu_y =$$

$$\mu_z =$$

C.2 (0.3 pt)

$$M_x =$$

$$M_y =$$

$$M_z =$$

C.3 (0.4 pt)

$$B_{EX} =$$

$$B_{EY} =$$

$$B_{EZ} =$$

C.4 (1.3 pt)

$$M_x(u) =$$

$$M_y(u) =$$

$$M_z(u) =$$

C.5 (1.0 pt)

$$\omega(t) =$$

C.6 (1.0 pt)

$$T/T_s =$$