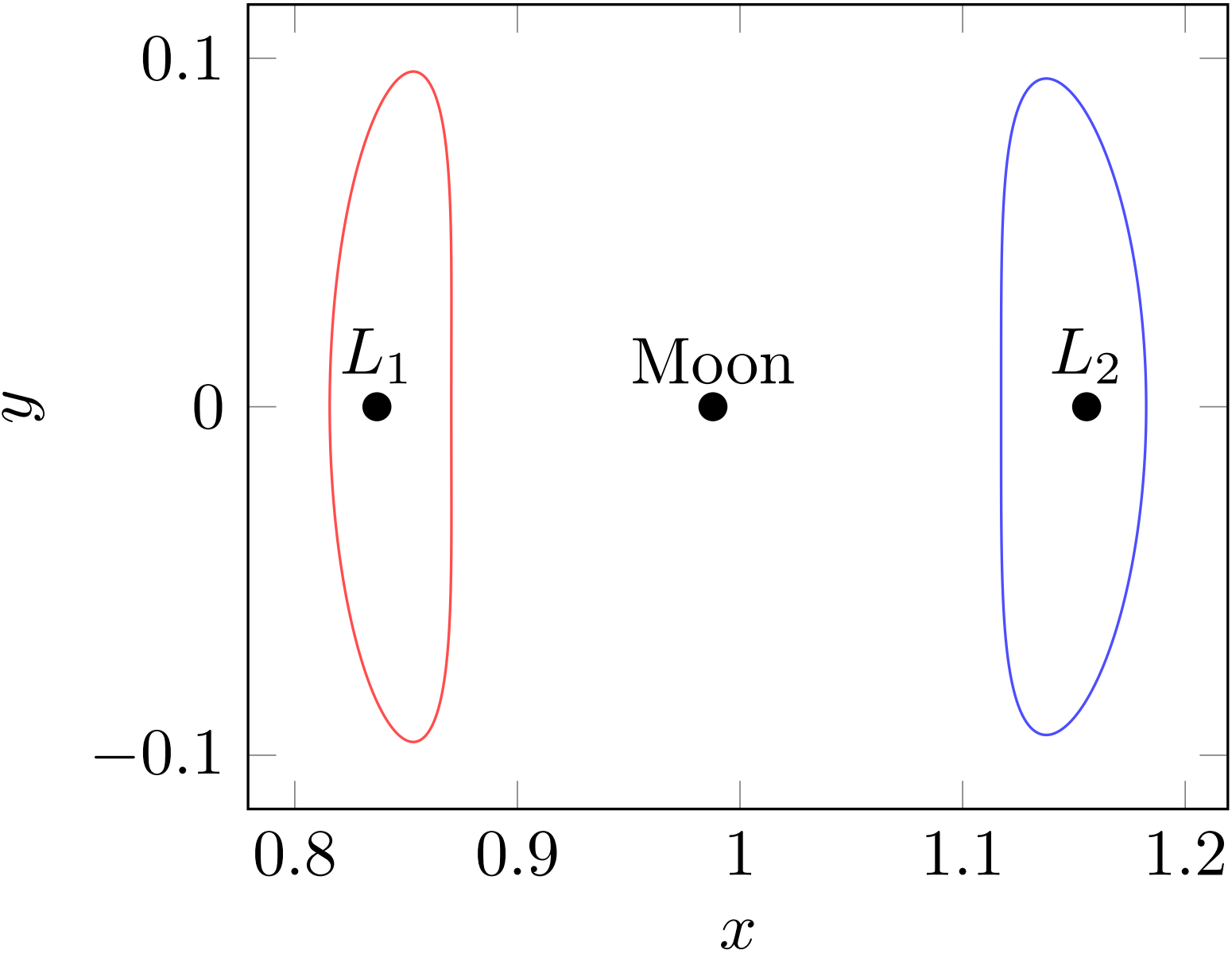
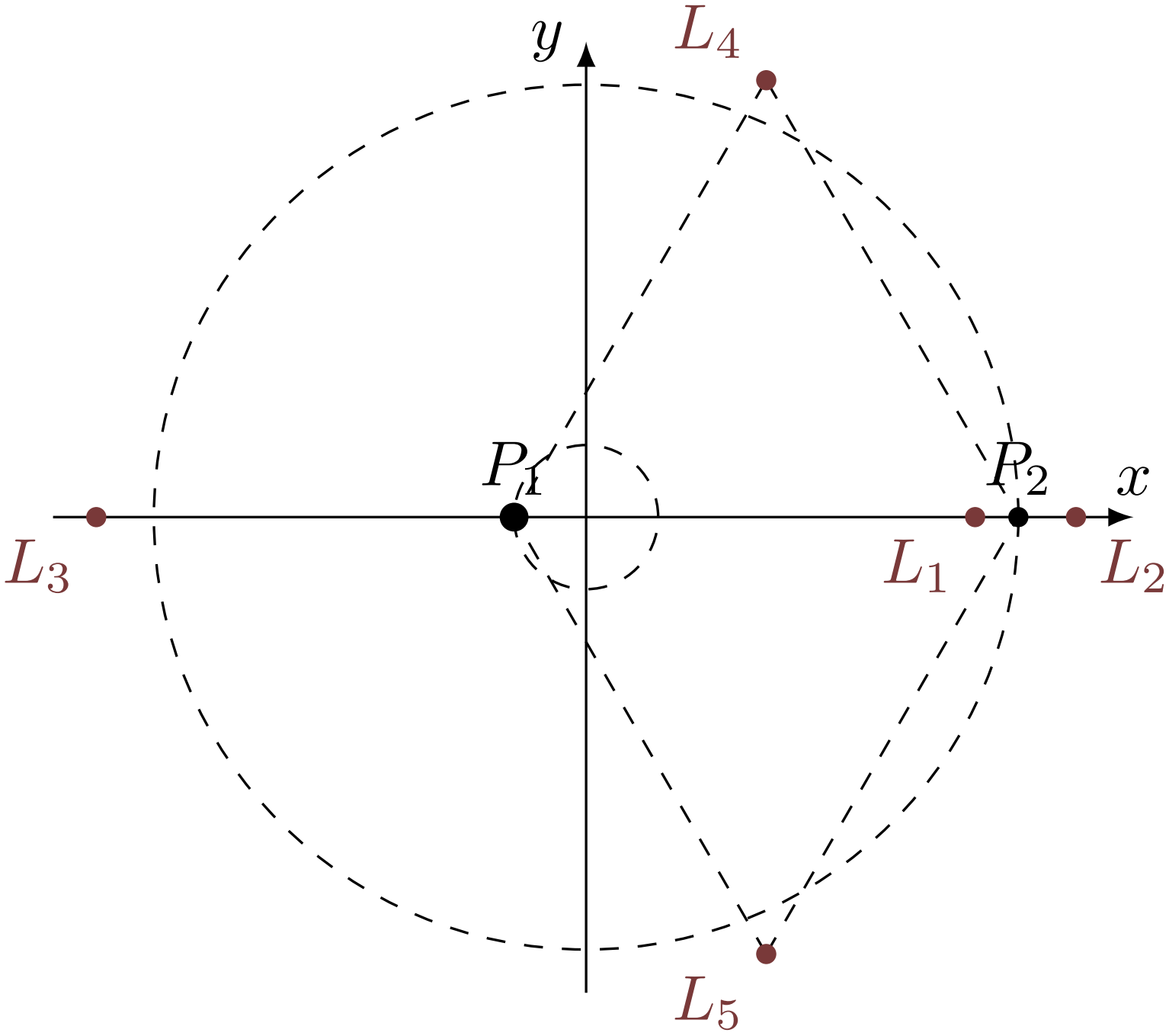
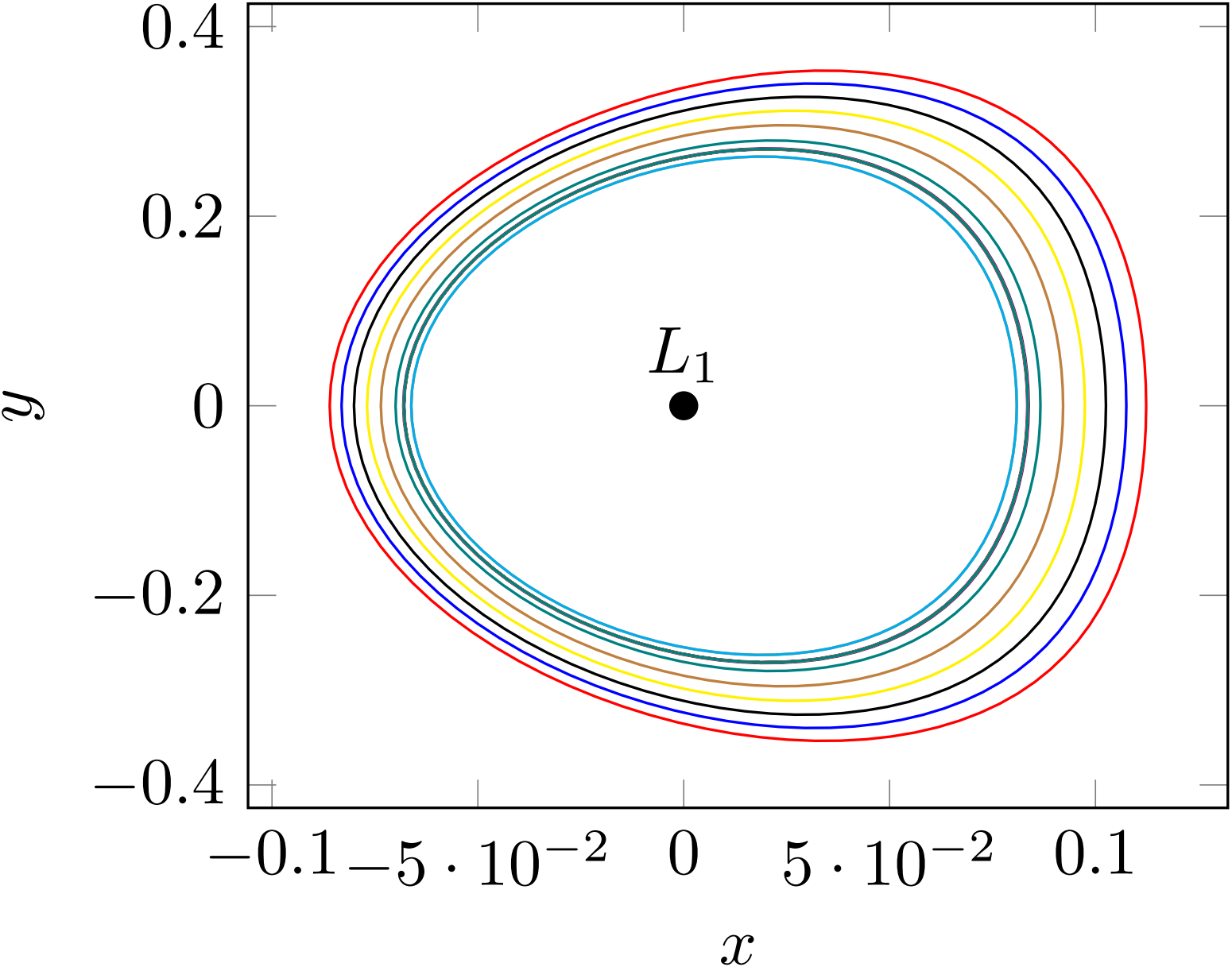
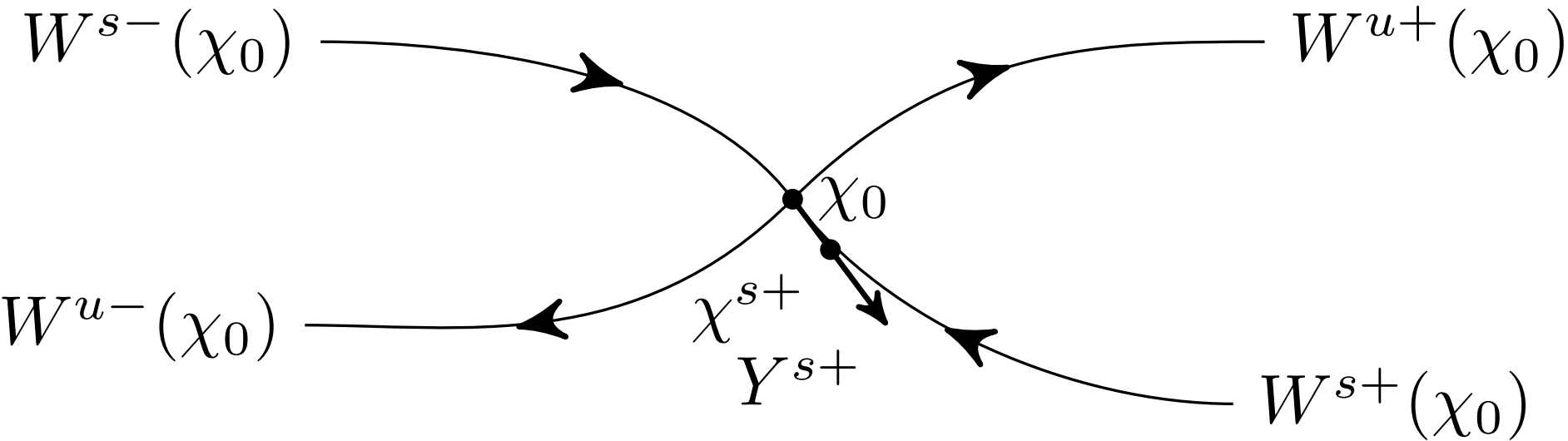
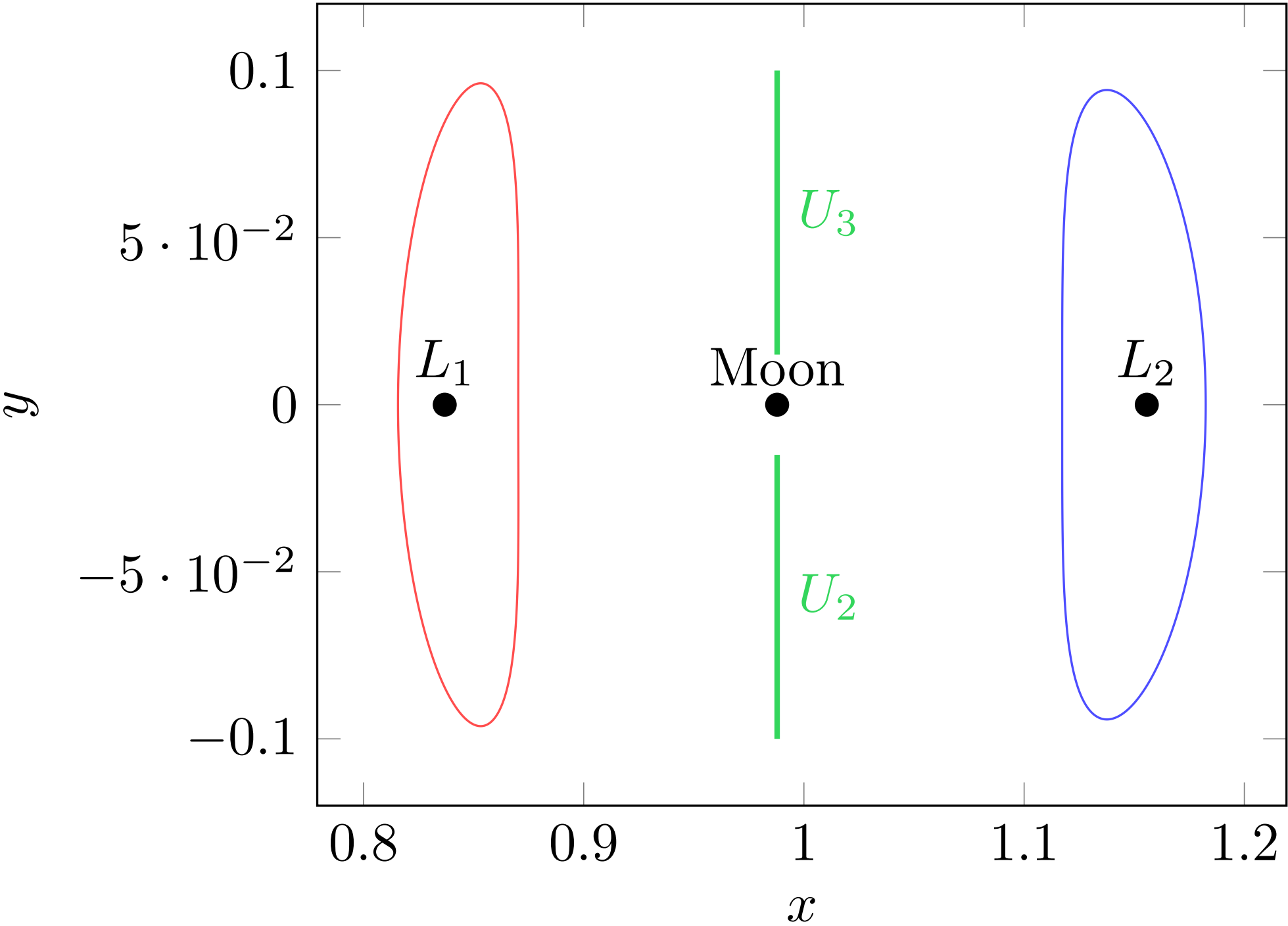
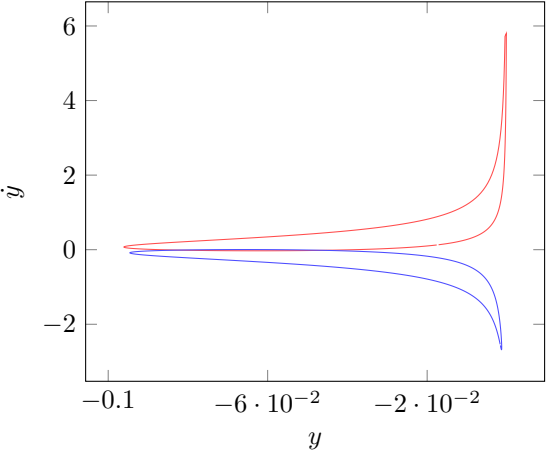

0.1
0
−0.1
y
0.8
0.9
1
1.1
1.2
x
L_1
Moon
L_2

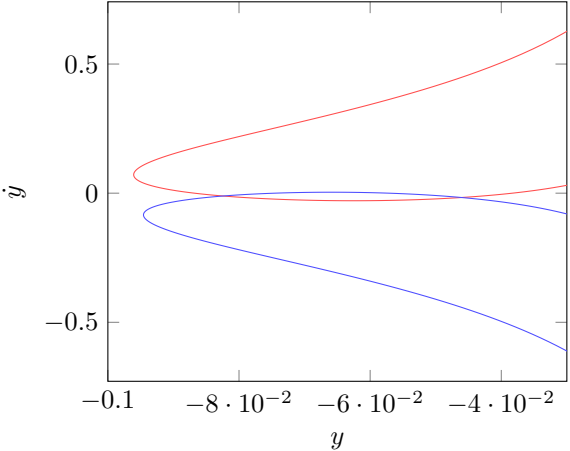

y
L_4
P_1
P_2
x
L_3
L_1
L_2
L_5

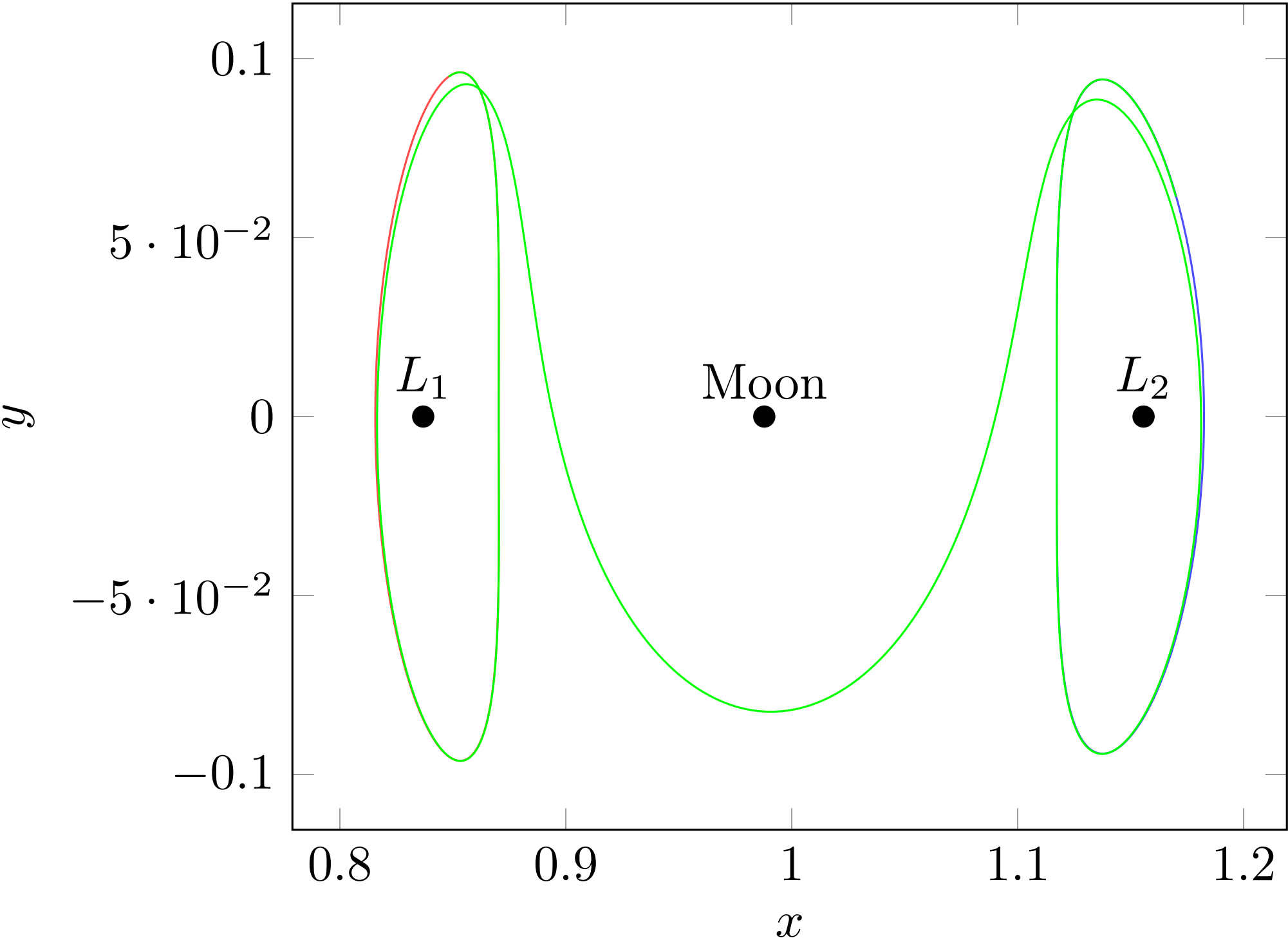

0.4
0.2
0
−0.2
−0.4
y
L1
−0.1
−5 · 10−2
0
5 · 10−2
0.1
x

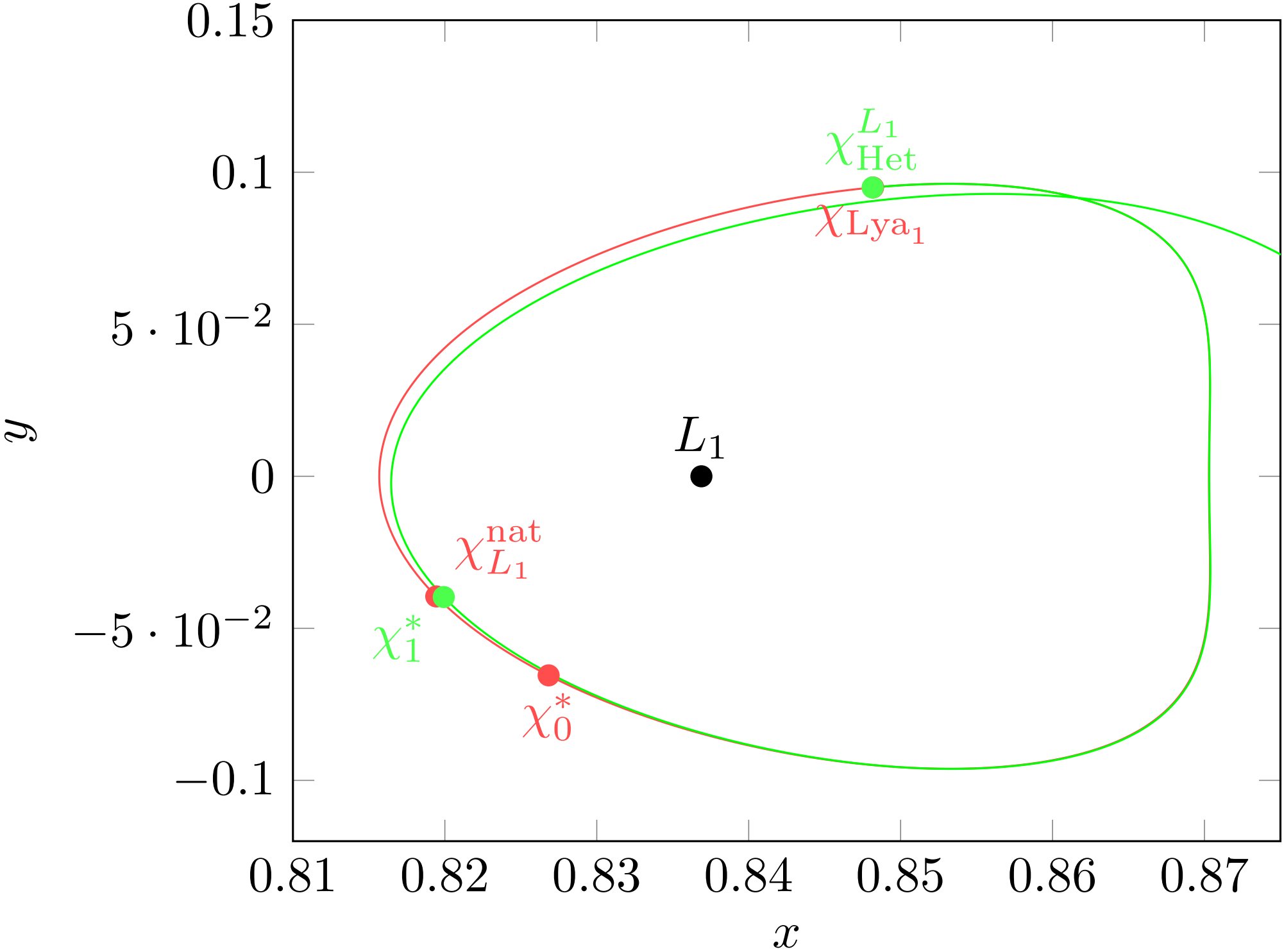

$W^{s-}(\chi_0)$
$W^{u+}(\chi_0)$
χ_0
$W^{u-}(\chi_0)$
χ^{s+}
Y^{s+}
$W^{s+}(\chi_0)$

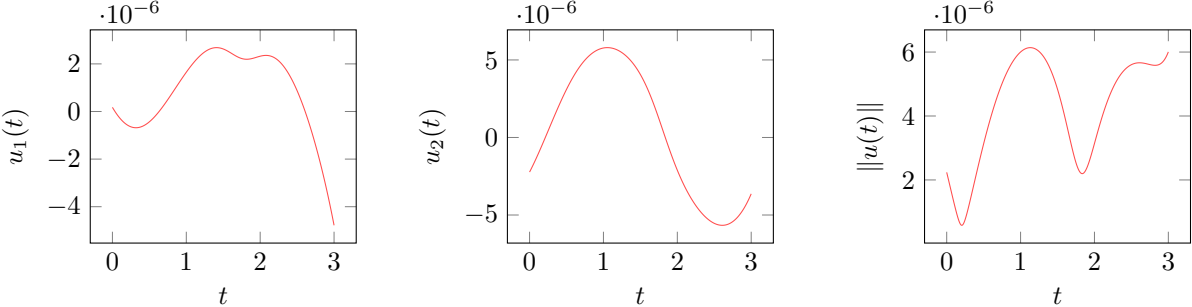

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
U_3
U_2
0.8
0.9
1
1.1
1.2
x

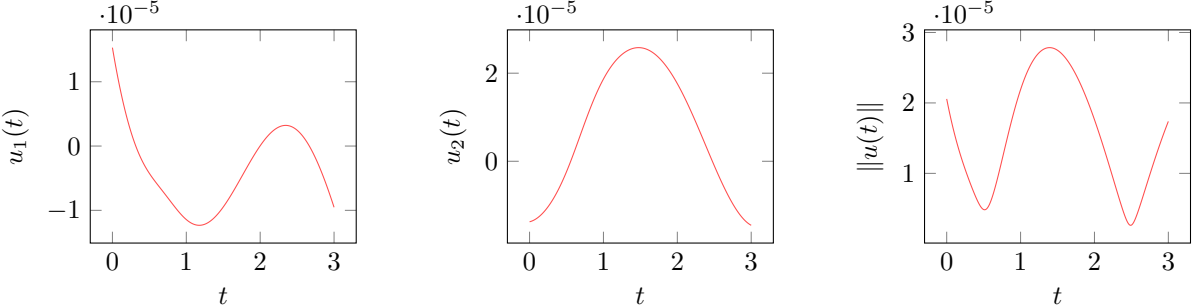

6
4
2
0
−2
$\dot{y}$
−0.1
$-6 \cdot 10^{-2}$
$-2 \cdot 10^{-2}$
y

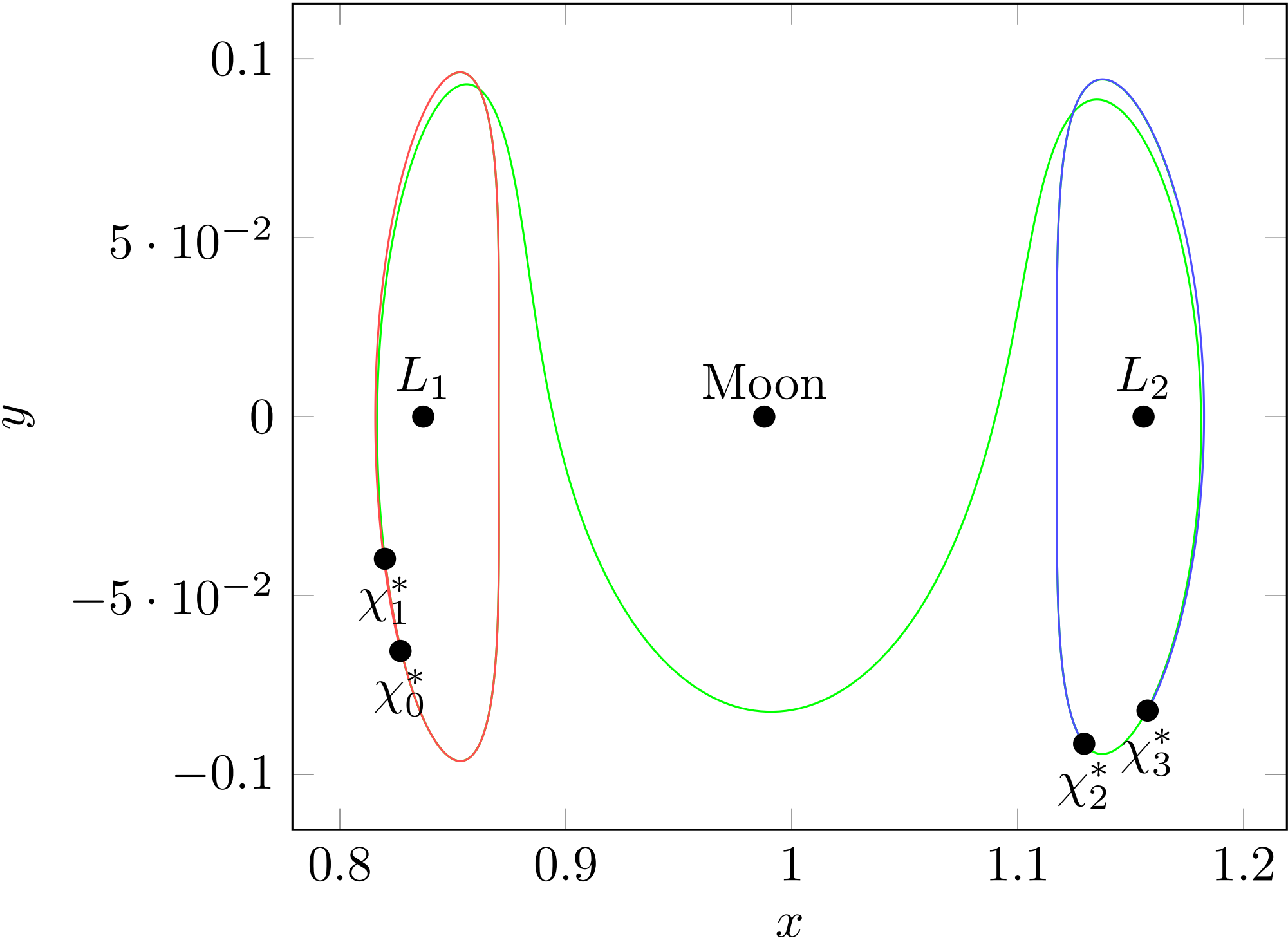

0.5
0
−0.5
$\dot{y}$
−0.1
$-8 \cdot 10^{-2}$
$-6 \cdot 10^{-2}$
$-4 \cdot 10^{-2}$
y

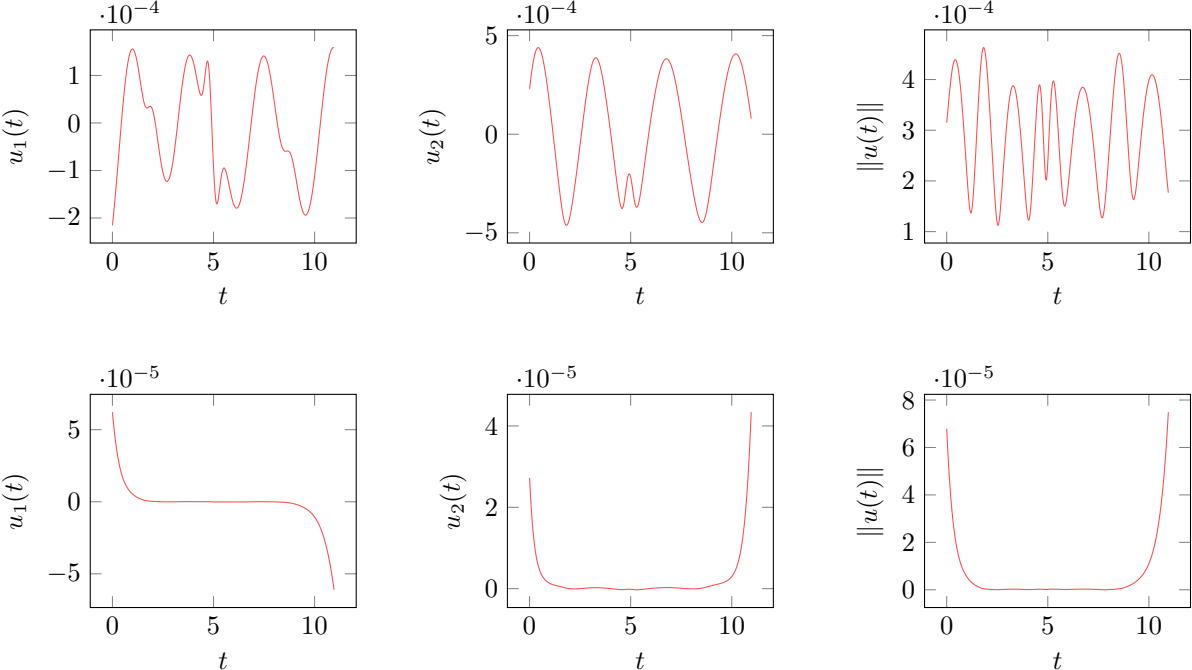

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
0.8
0.9
1
1.1
1.2
x

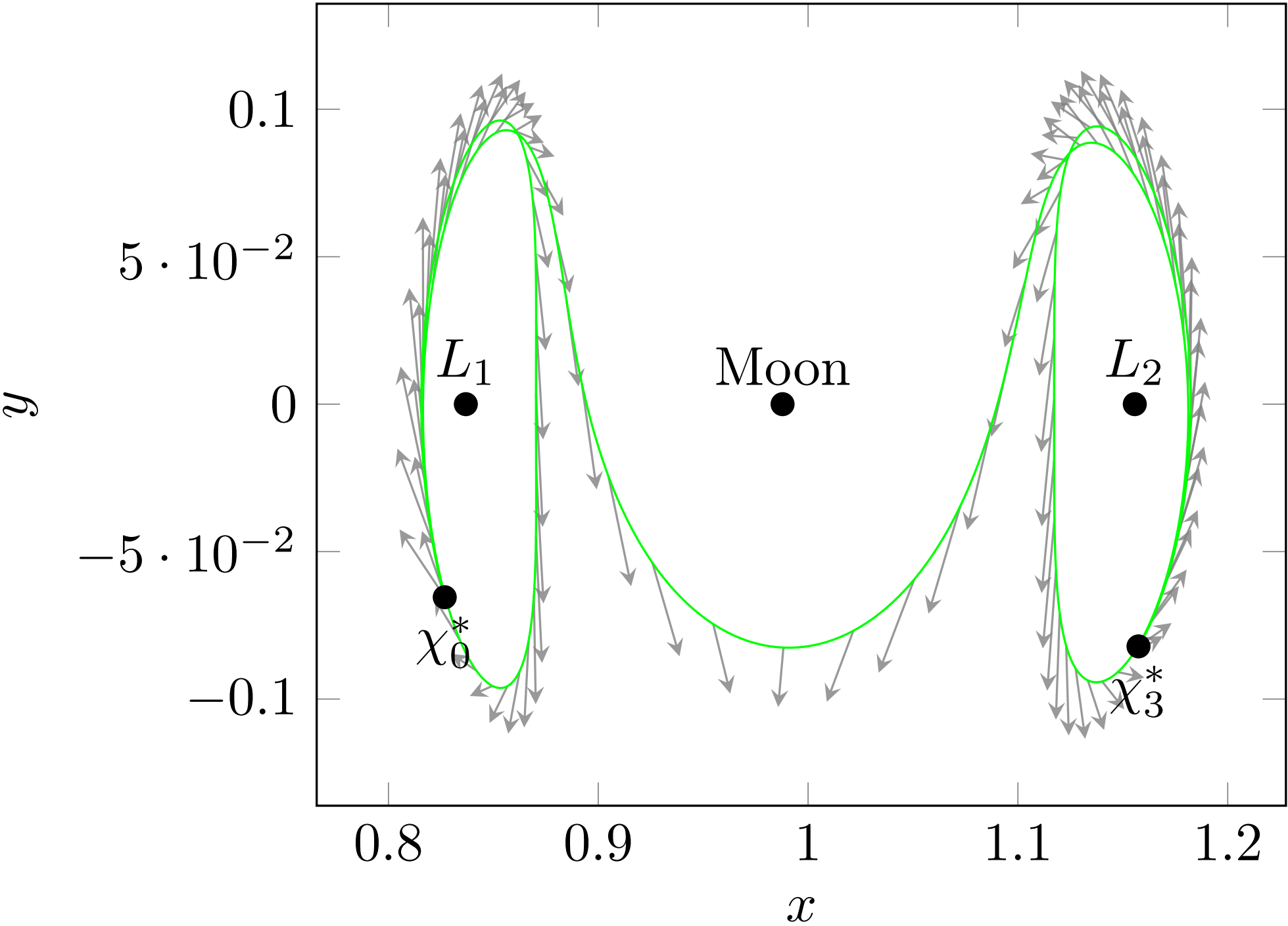

0.15
0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
0.81
0.82
0.83
0.84
0.85
0.86
0.87
x
$\chi_{\mathrm{Het}}^{L_1}$
χ_{Lya_1}
L_1
$\chi_{L_1}^{\mathrm{nat}}$
χ_1^*
χ_0^*

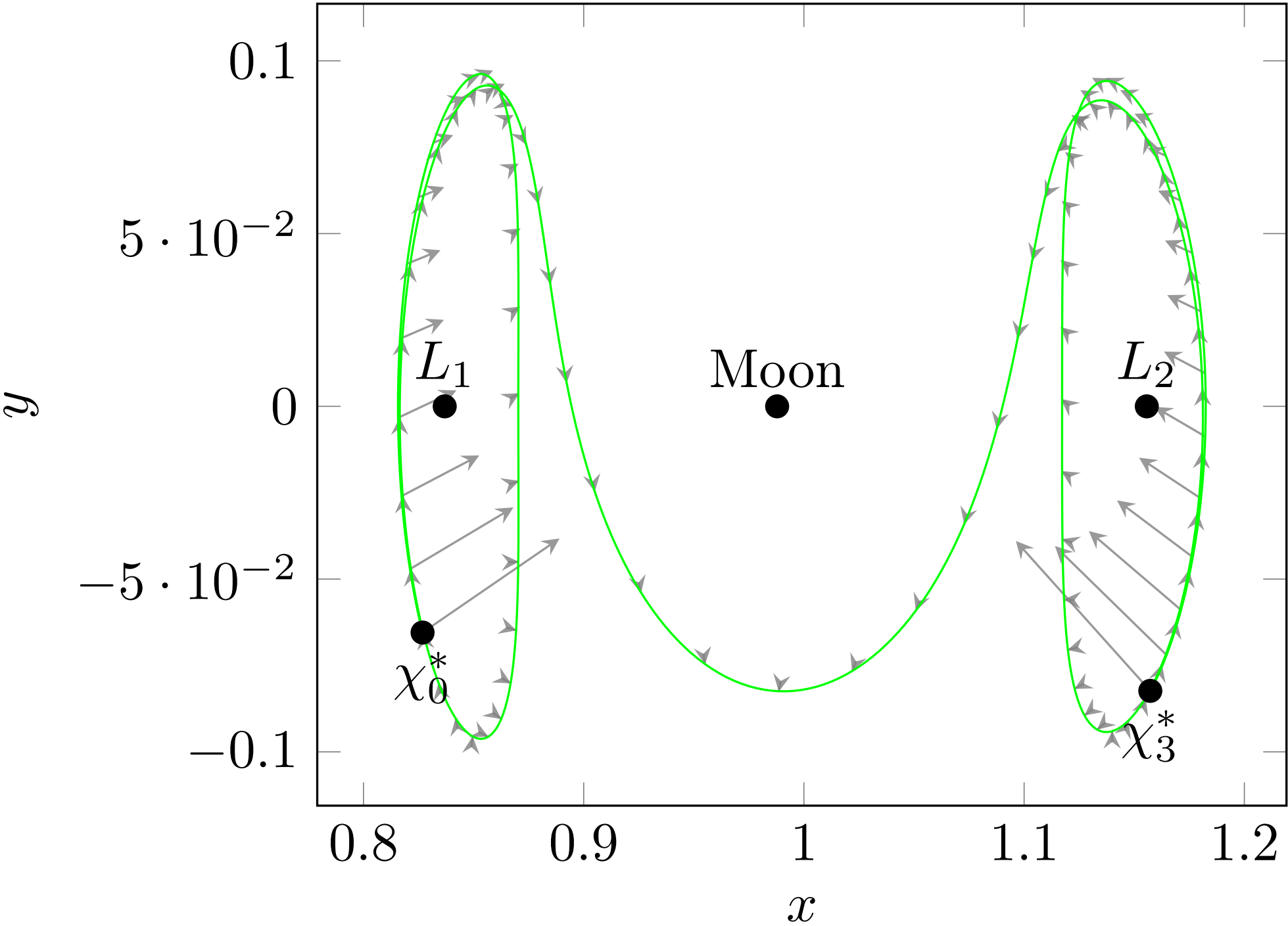

$\cdot 10^{-6}$
2
0
−2
−4
$u_1(t)$
0
1
2
3
t
$\cdot 10^{-6}$
5
0
−5
$u_2(t)$
0
1
2
3
t
$\cdot 10^{-6}$
6
4
2
$\|u(t)\|$
0
1
2
3
t

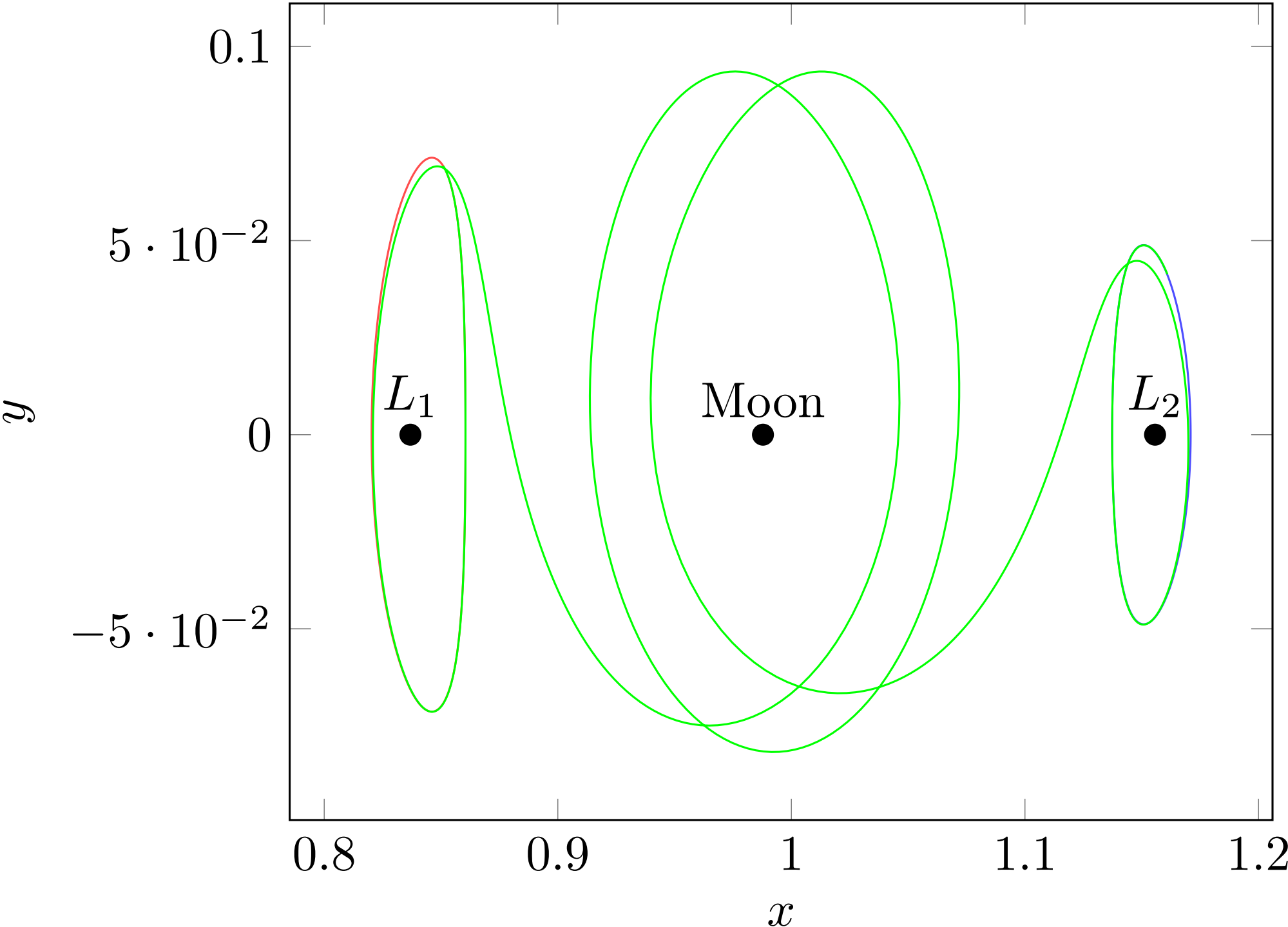

$\cdot 10^{-5}$
$u_1(t)$
1
0
−1
0
1
2
3
t
$\cdot 10^{-5}$
$u_2(t)$
2
0
0
1
2
3
t
$\cdot 10^{-5}$
$\|u(t)\|$
3
2
1
0
1
2
3
t

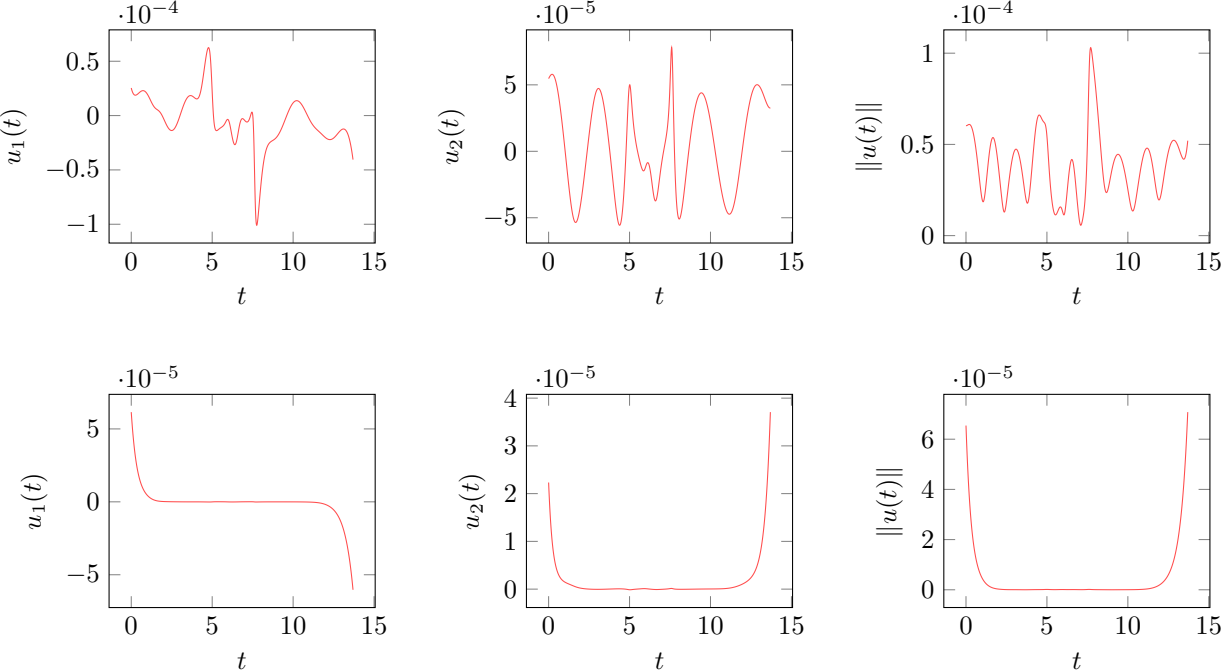

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
χ_1^*
χ_0^*
χ_2^*
χ_3^*
0.8
0.9
1
1.1
1.2
x

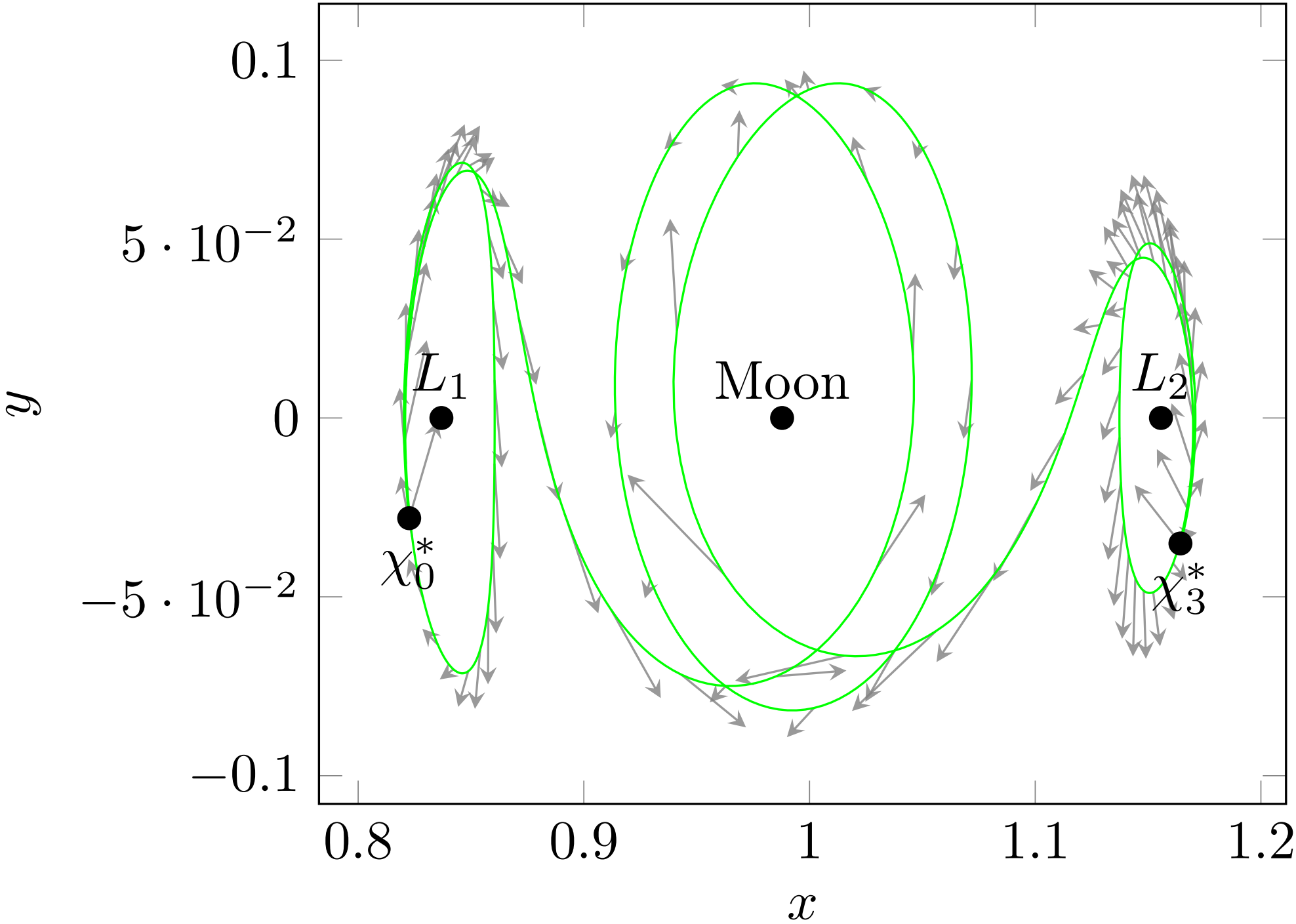

$\cdot 10^{-4}$
$u_1(t)$
t
$\cdot 10^{-4}$
$u_2(t)$
t
$\cdot 10^{-4}$
$\|u(t)\|$
t
$\cdot 10^{-5}$
$u_1(t)$
t
$\cdot 10^{-5}$
$u_2(t)$
t
$\cdot 10^{-5}$
$\|u(t)\|$
t

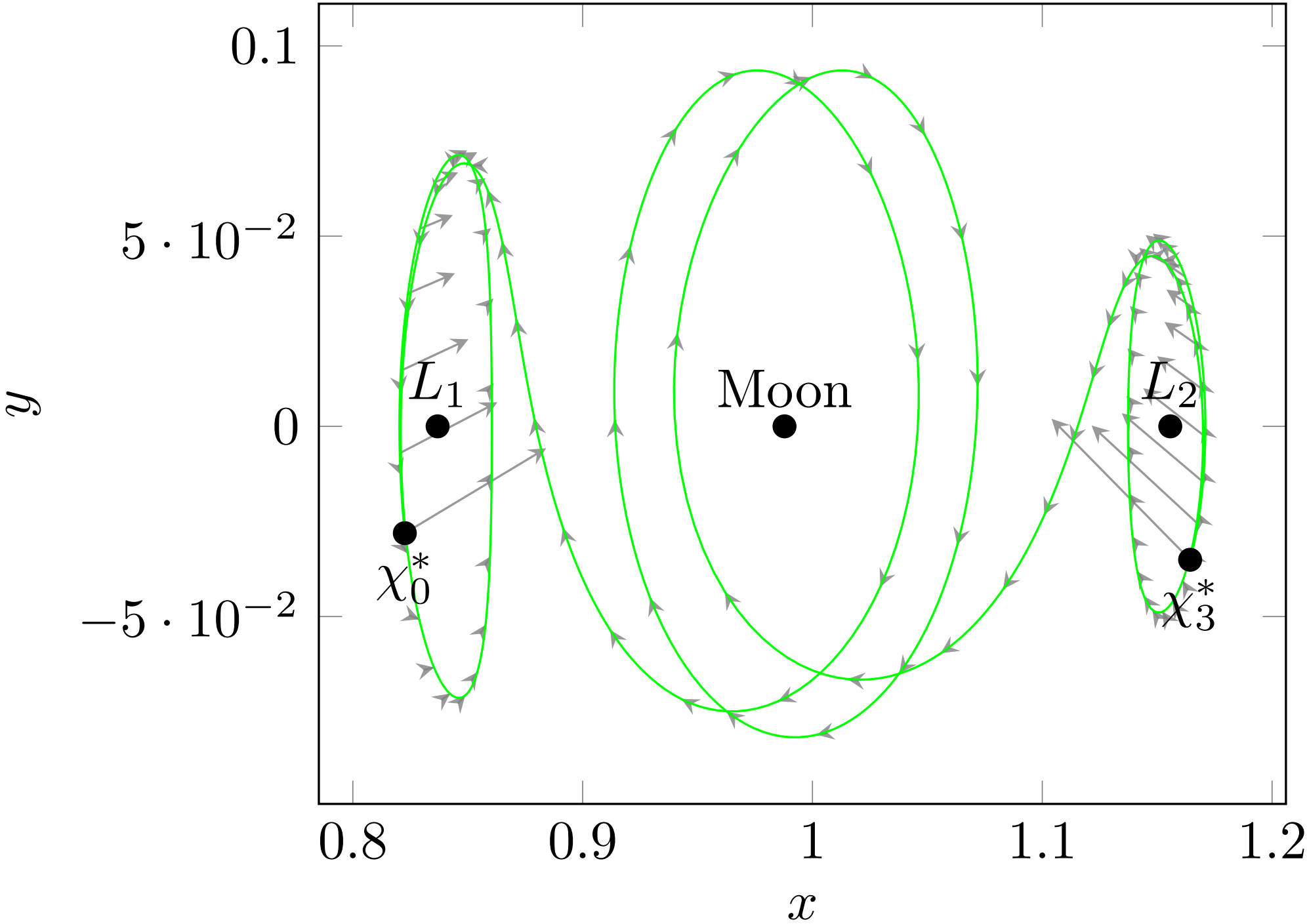

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
χ_0^*
χ_3^*
0.8
0.9
1
1.1
1.2
x

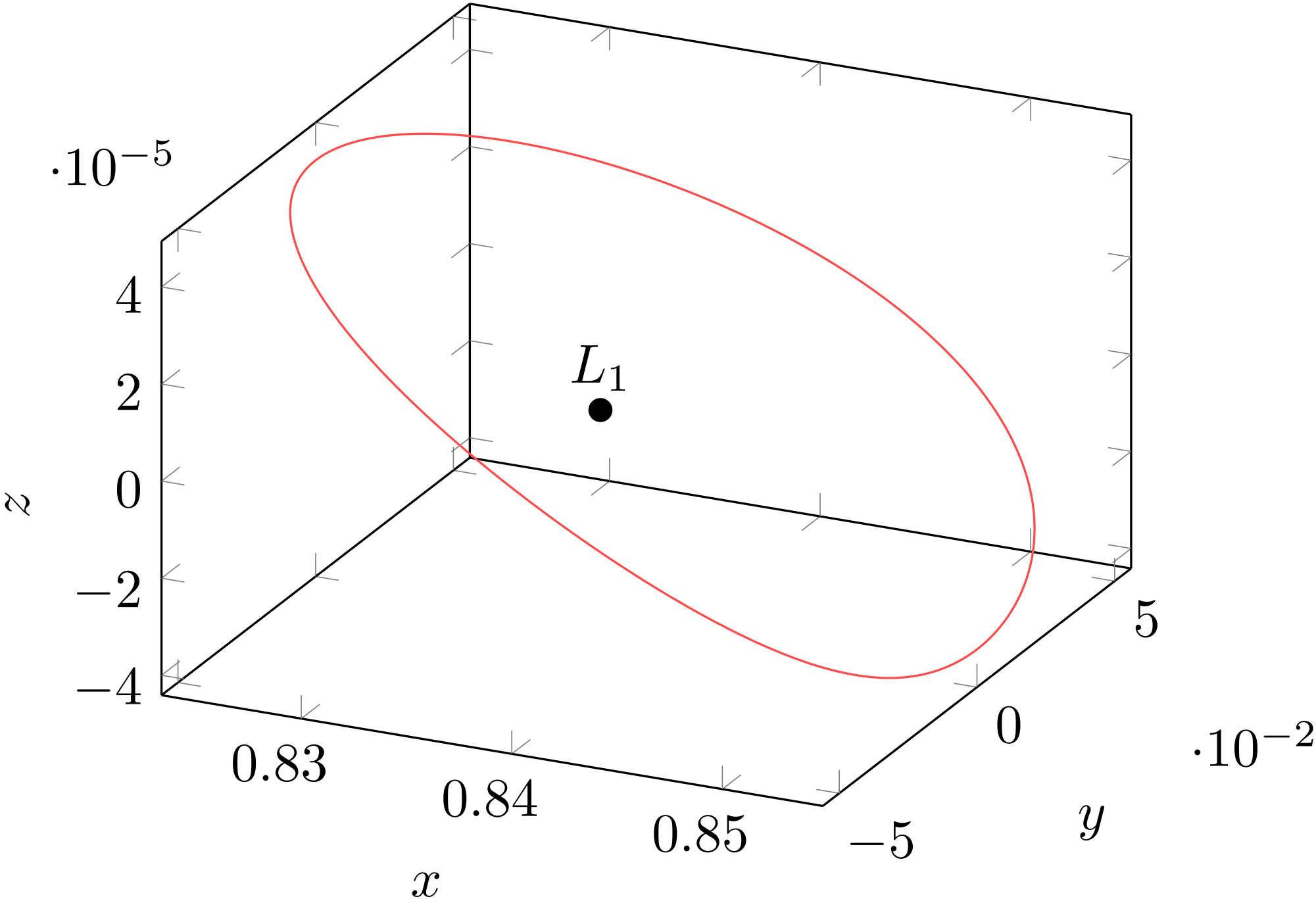

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
χ_0^*
χ_3^*
0.8
0.9
1
1.1
1.2
x

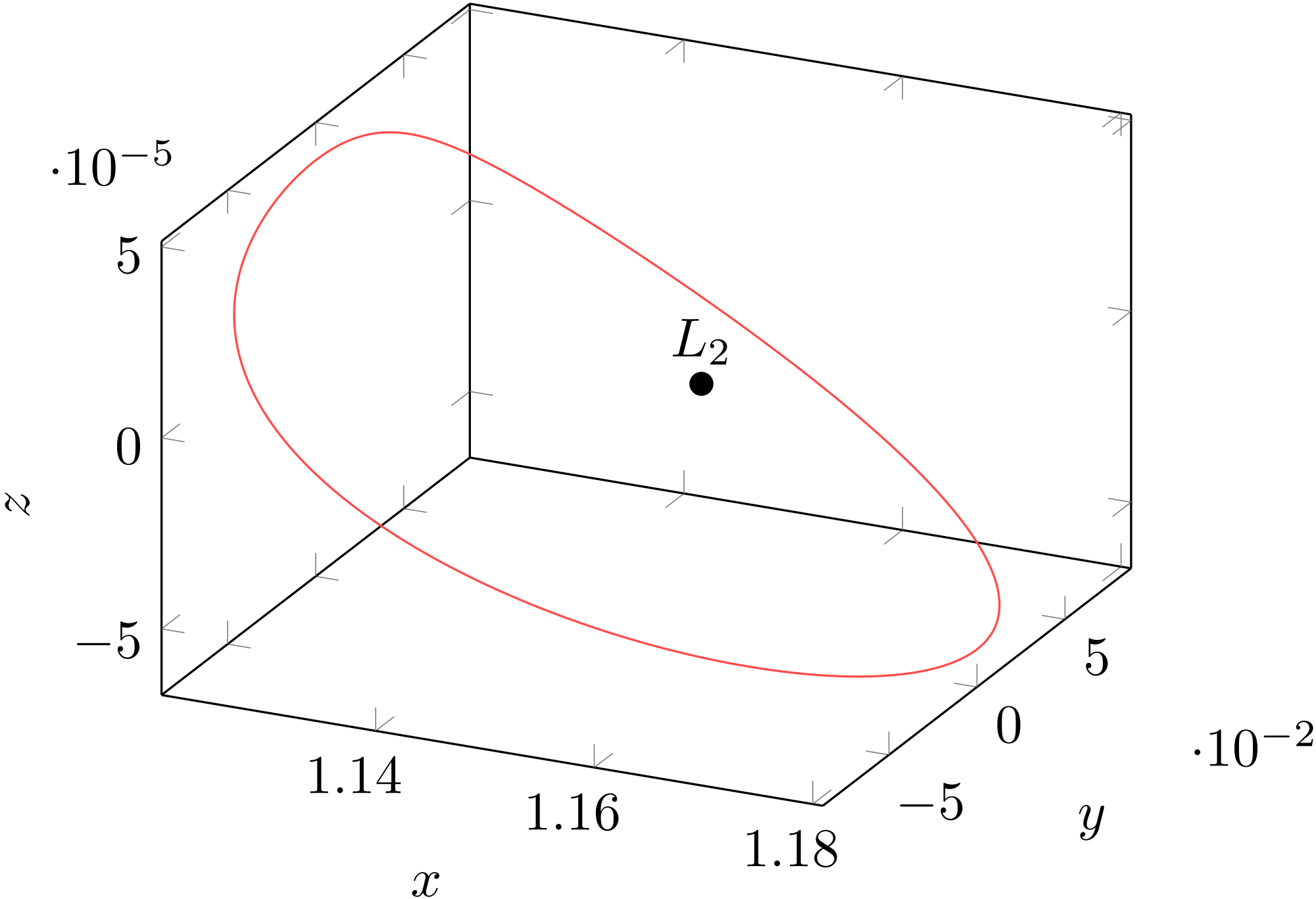

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
y
L_1
Moon
L_2
0.8
0.9
1
1.1
1.2
x

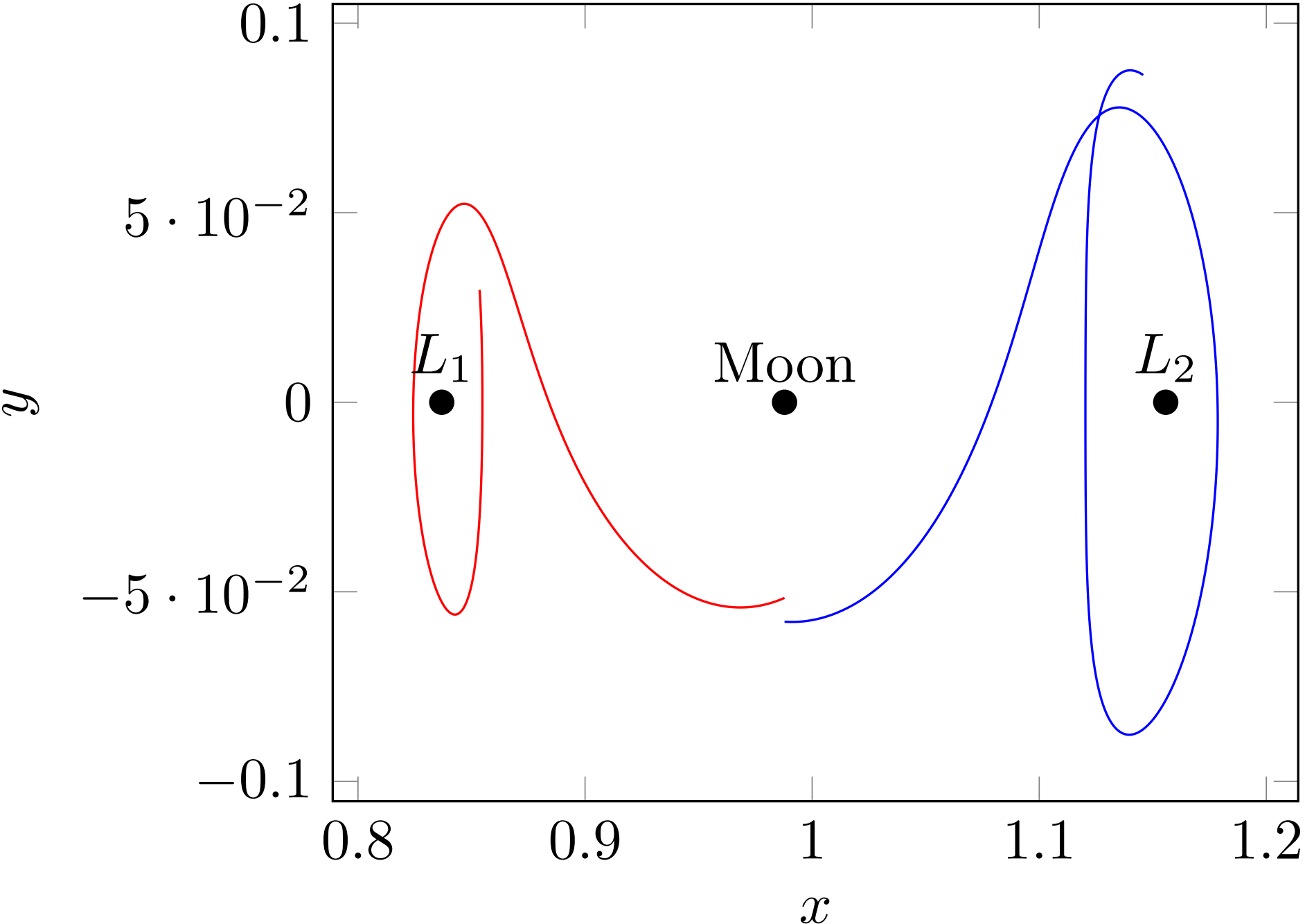

$\cdot 10^{-4}$
$u_1(t)$
t
$\cdot 10^{-5}$
$u_2(t)$
t
$\cdot 10^{-4}$
$\|u(t)\|$
t
$\cdot 10^{-5}$
$u_1(t)$
t
$\cdot 10^{-5}$
$u_2(t)$
t
$\cdot 10^{-5}$
$\|u(t)\|$
t

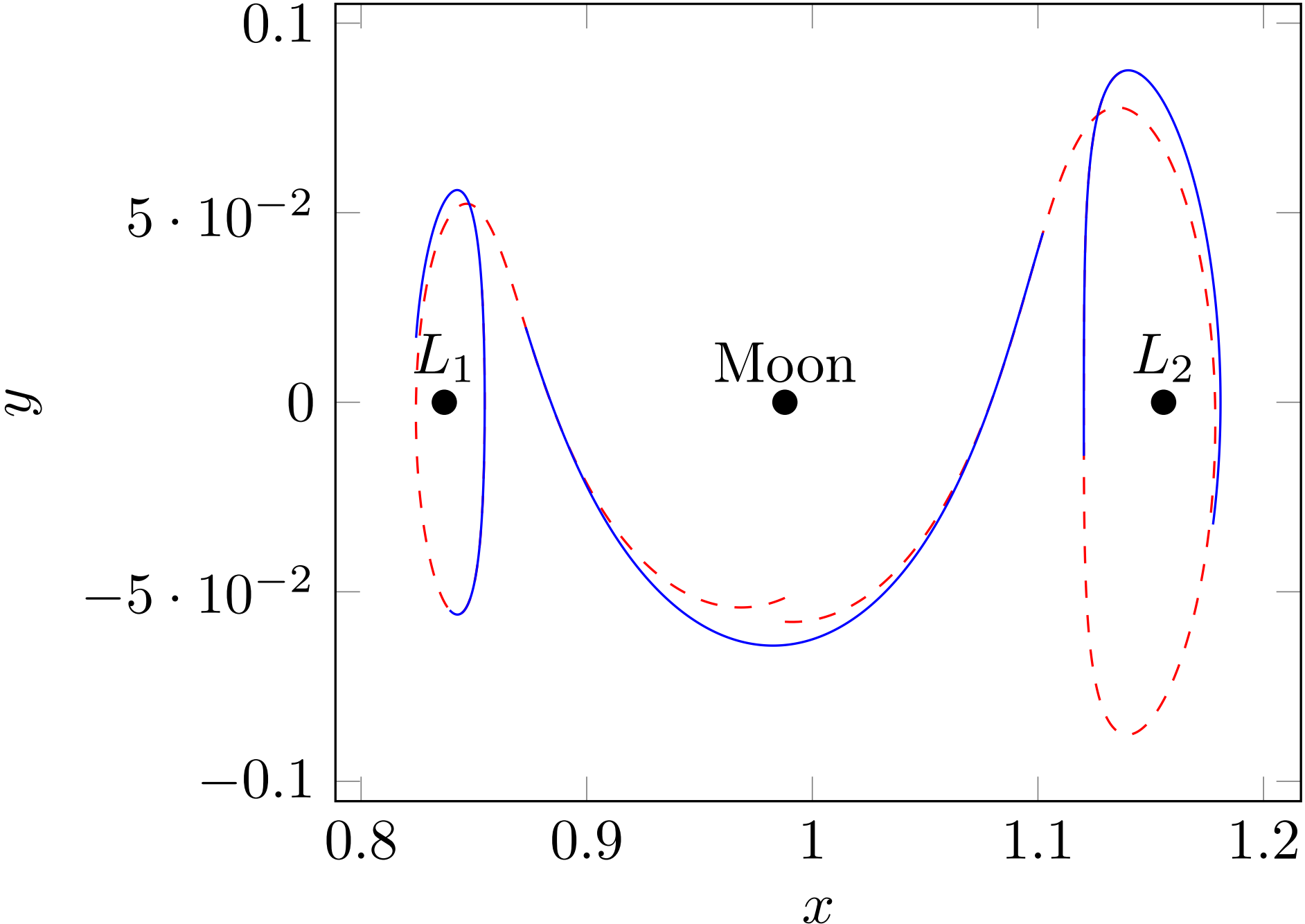

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
χ_0^*
χ_3^*
0.8
0.9
1
1.1
1.2
x

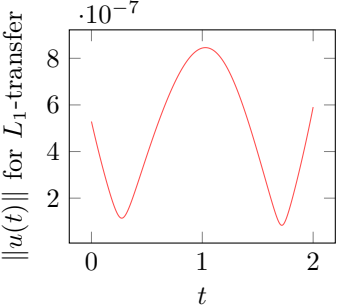

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
y
L_1
Moon
L_2
χ_0^*
χ_3^*
0.8
0.9
1
1.1
1.2
x

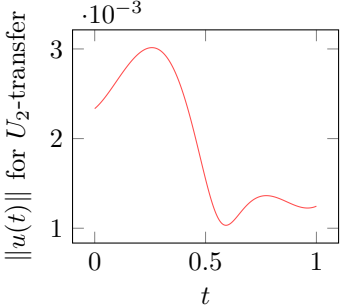

$\cdot 10^{-5}$
4
2
0
−2
−4
z
L_1
0.83
0.84
0.85
x
−5
0
5
$\cdot 10^{-2}$
y

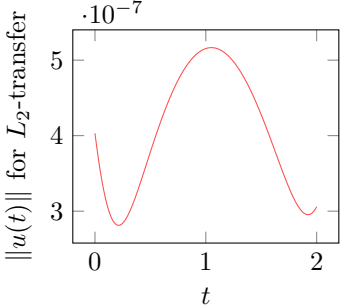

$\cdot 10^{-5}$
5
0
−5
z
L_2
1.14
1.16
1.18
x
5
0
−5
$\cdot 10^{-2}$
y

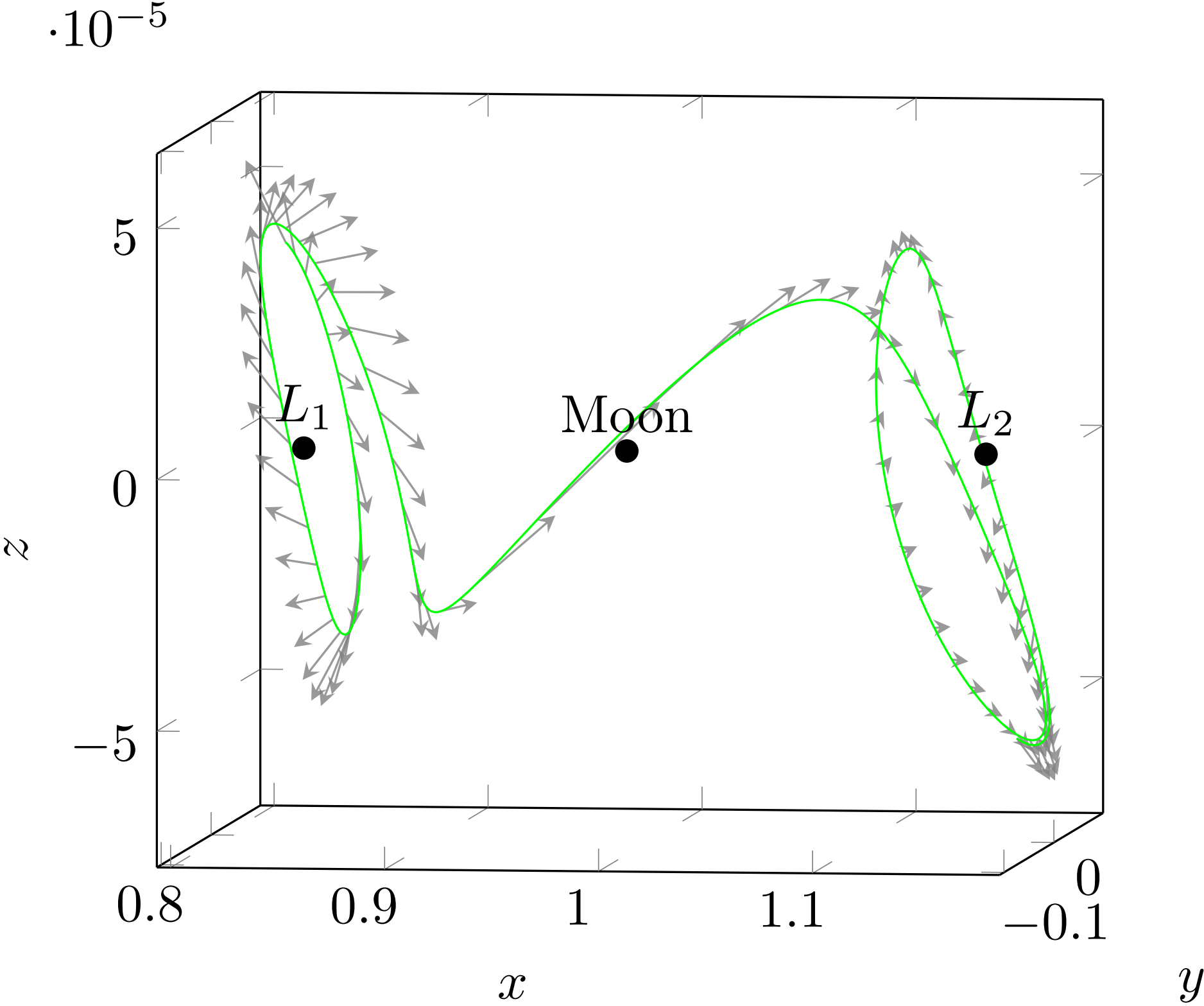

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
0.8
0.9
1
1.1
1.2
x

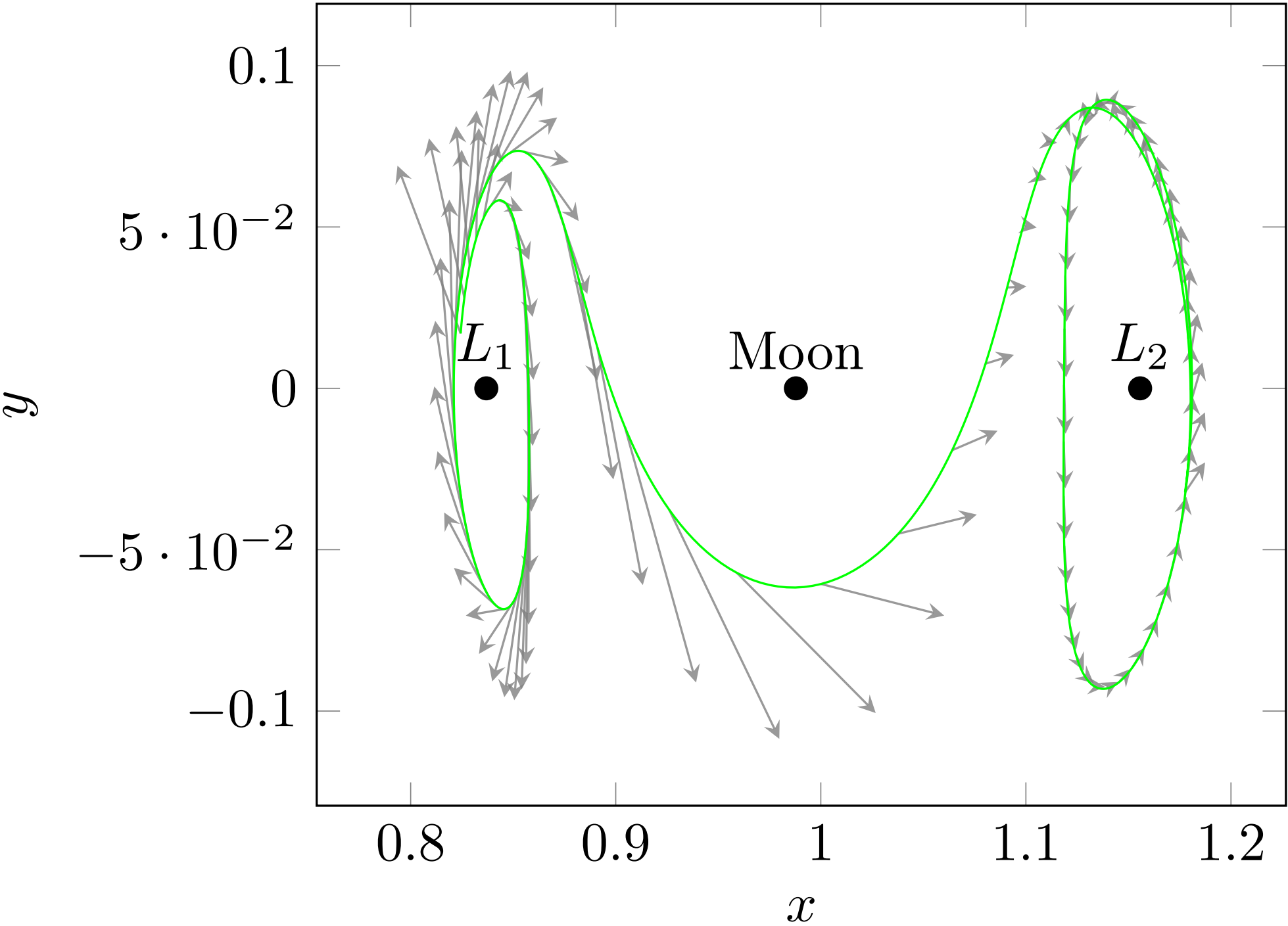

0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
0.8
0.9
1
1.1
1.2
x

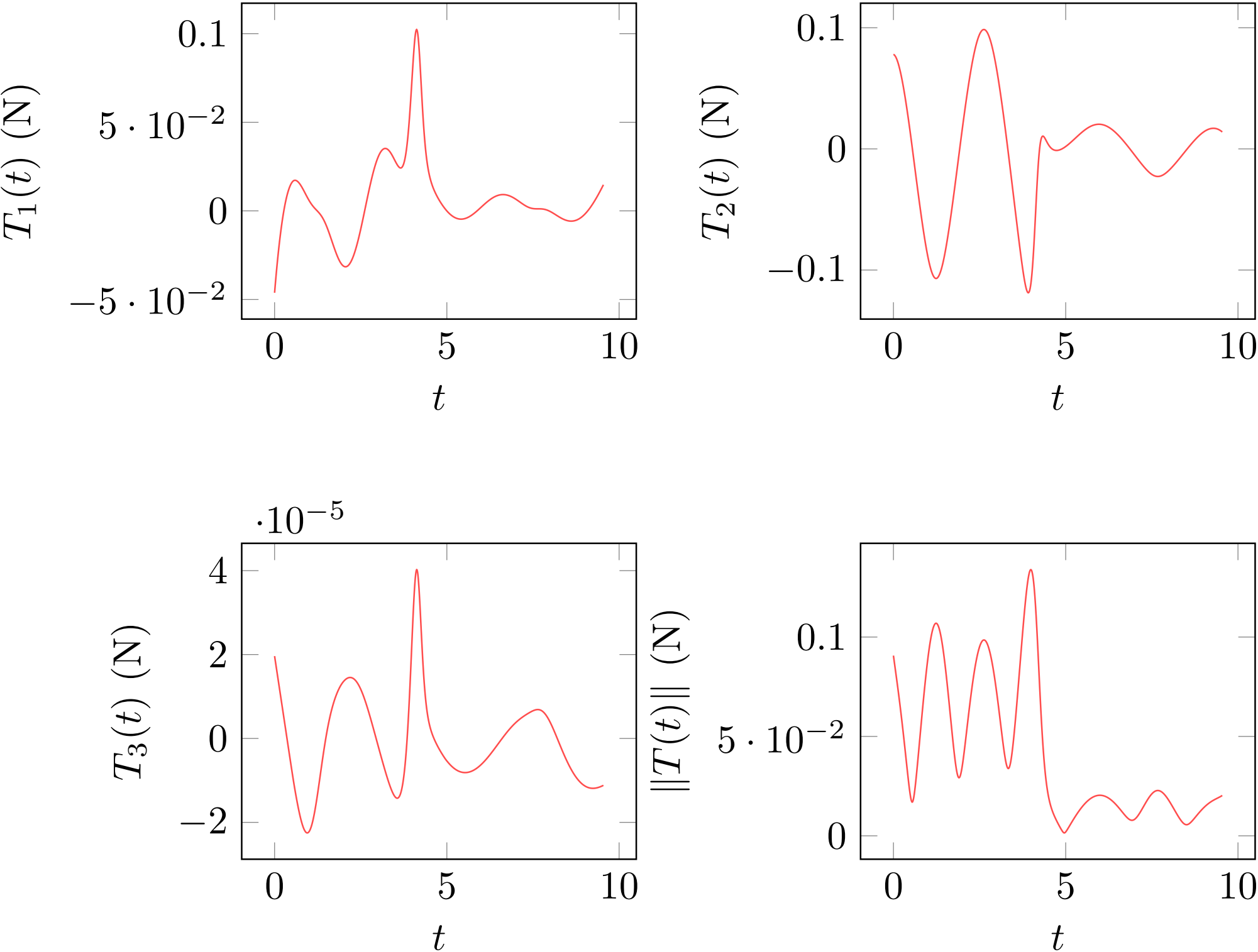

$\cdot 10^{-7}$
8
6
4
2
0
1
2
t
$\|u(t)\|$ for L_1-transfer


$\cdot 10^{-3}$
3
2
1
0
0.5
1
t
$\|u(t)\|$ for U_2-transfer


$\cdot 10^{-7}$
5
4
3
0
1
2
t
$\|u(t)\|$ for L_2-transfer


$\cdot 10^{-5}$
5
0
−5
z
L_1
Moon
L_2
0.8
0.9
1
1.1
x
0
−0.1
y


0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
-0.1
y
L_1
Moon
L_2
0.8
0.9
1
1.1
1.2
x


$T_1(t)$ (N)
0.1
$5 \cdot 10^{-2}$
0
$-5 \cdot 10^{-2}$
0
5
10
t
$T_2(t)$ (N)
0.1
0
−0.1
0
5
10
t
$T_3(t)$ (N)
$\cdot 10^{-5}$
4
2
0
−2
0
5
10
t
$\|T(t)\|$ (N)
0.1
$5 \cdot 10^{-2}$
0
0
5
10
t