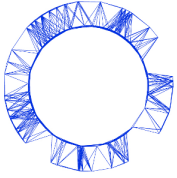


Theory



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A1-1

Japanese (Japan)

LIGO-GW150914 (10 点)

Part A: ニュートン力学による軌道 (3.0 点)

A.1 (1.0 pt)

$n =$

$\alpha =$

A.2 (1.0 pt)

$A(\mu, \Omega, L) =$

A.3 (1.0 pt)

$\beta =$

Part B: 相対論的エネルギー散逸の導入 (7.0 点)

B.1 (1.0 pt)

$k =$

$a_1 =$

$a_2 =$

$a_3 =$

$b_1 =$

$b_2 =$

$b_3 =$

$c_{12} =$

$c_{13} =$

$c_{23} =$

$c_{21} =$

$c_{22} =$

$c_{23} =$

$c_{31} =$

$c_{32} =$

$c_{33} =$

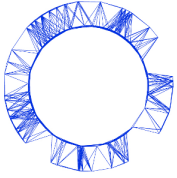
B.2 (1.0 pt)

$\xi =$

B.3 (1.0 pt)

$M_{\dot{c}} =$

Theory



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A1-2

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B.4 (2.0 pt)

$p =$

B.5 (1.0 pt)

$M_c \simeq$

$M \simeq$

B.6 (1.0 pt)

$L \simeq$

$\frac{R_\odot}{R_{\max}} \simeq$

$\frac{v_{\text{col}}}{c} \simeq$