```
======================= STARTING OPTIMIZATION RUN =======================
differential_evolution step 1: f(x)= -72.0062
differential_evolution step 2: f(x)= -152.503
differential_evolution step 3: f(x)= -152.503
differential_evolution step 4: f(x)= -152.689
differential_evolution step 5: f(x)= -176.106
differential_evolution step 6: f(x)= -210.415
differential_evolution step 7: f(x)= -224.958
differential_evolution step 8: f(x)= -240.512
differential_evolution step 9: f(x)= -240.512
differential_evolution step 10: f(x)= -240.512
differential_evolution step 11: f(x)= -246.616
differential_evolution step 12: f(x)= -246.616
differential_evolution step 13: f(x)= -247.332
differential_evolution step 14: f(x)= -248.422
differential_evolution step 15: f(x)= -248.744
differential_evolution step 16: f(x)= -249.315
differential_evolution step 17: f(x)= -251.202
differential_evolution step 18: f(x)= -251.202
differential_evolution step 19: f(x)= -251.229
differential_evolution step 20: f(x)= -251.229
differential_evolution step 21: f(x)= -251.469
differential_evolution step 22: f(x)= -251.469
differential_evolution step 23: f(x)= -251.8
differential_evolution step 24: f(x)= -252.206
differential_evolution step 25: f(x)= -252.217
differential_evolution step 26: f(x)= -252.217
differential_evolution step 27: f(x)= -252.31

============================ OPTIMIZED RESULTS ============================
================================ CRITERION ================================
 ├─fisher_determinant        252.31000727743015
 ├─sensitivity matrix        [[0.02936982 6.00979198 3.68012032]
 │                            [0.02936994 6.00979942 3.68012487]
 │                            [0.19345575 8.42296024 2.64726938]
 │                            [0.99551519 0.10814337 0.0339886 ]]
 └─inverse covariance matrix [[0.82338185 0.         0.         0.        ]
 │                            [0.         0.82338186 0.         0.        ]
 │                            [0.         0.         0.82594678 0.        ]
 │                            [0.         0.         0.         0.82634818]]
============================ INDIVIDUAL RESULTS ============================
Result_0
 ├─ode_x0      [50.  1.]
 ├─ode_t0      0.0
 ├─times       [99.9942128  99.99433358]
 ├─inputs      [3.4817324001093413]
 └─parameters  (20000.0, 0.02, -5.5)
Result_1
 ├─ode_x0      [50.  1.]
 ├─ode_t0      0.0
 ├─times       [42.95660959 98.6753861 ]
 ├─inputs      [11.999647652116655]
 └─parameters  (20000.0, 0.02, -5.5)
======================= DISCRETIZATION PENALTY SUMMARY =======================
 ├─penalty          1.0
 ├─penalty_ode_t0   1.0
 ├─penalty_inputs   1.0
 ├─penalty_times    1.0
 └─penalty_summary  {'ode_t0': [], 'inputs': [], 'times': []}
```