

Computer modeling of motion of globular clusters in gravitational field

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Target list:

- Choose technology for modeling.
- Choose technique.
- Determine all conditions
- Calculate

Chosen technology and methods for computer modelling

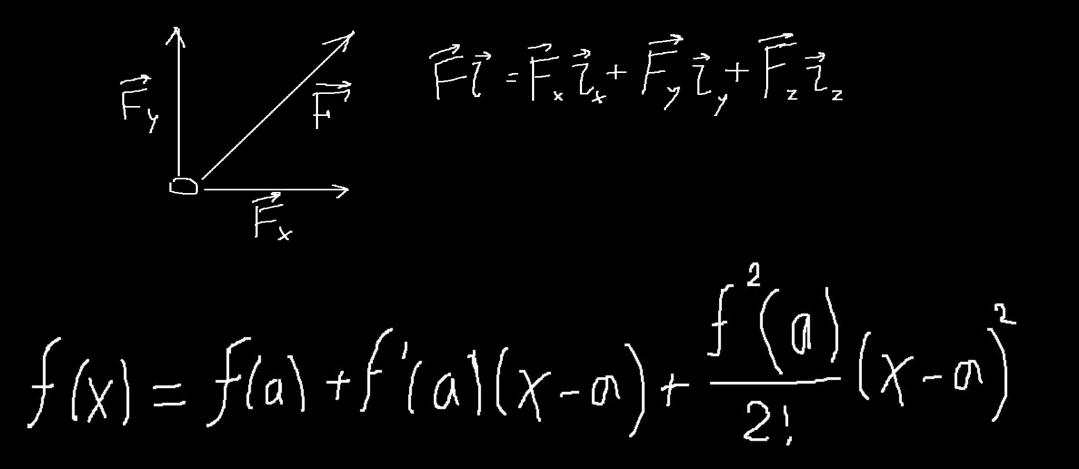
• C++ • Qt

• Forces modeling by Taylor Series

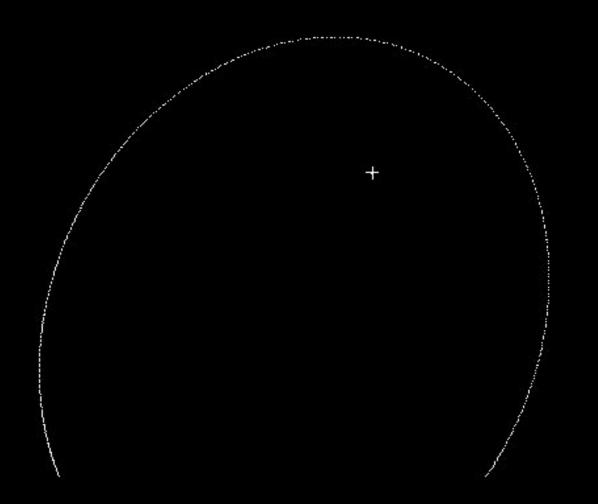


GLOBULAR CLUSTER

Forces calculating



Result for one body



Additional conditions

- Dark Halo
- Galaxy core
- Galaxy disk

• Gas component

= GRAVITATIONAL FIELD

CONCLUSIONS

-Program successful counted the mass center orbit and shows it moving by using the Taylor Series to calculate projections of gravitation force.

- C++ and Qt its a realy cross-platform tools and good approach to solve this task