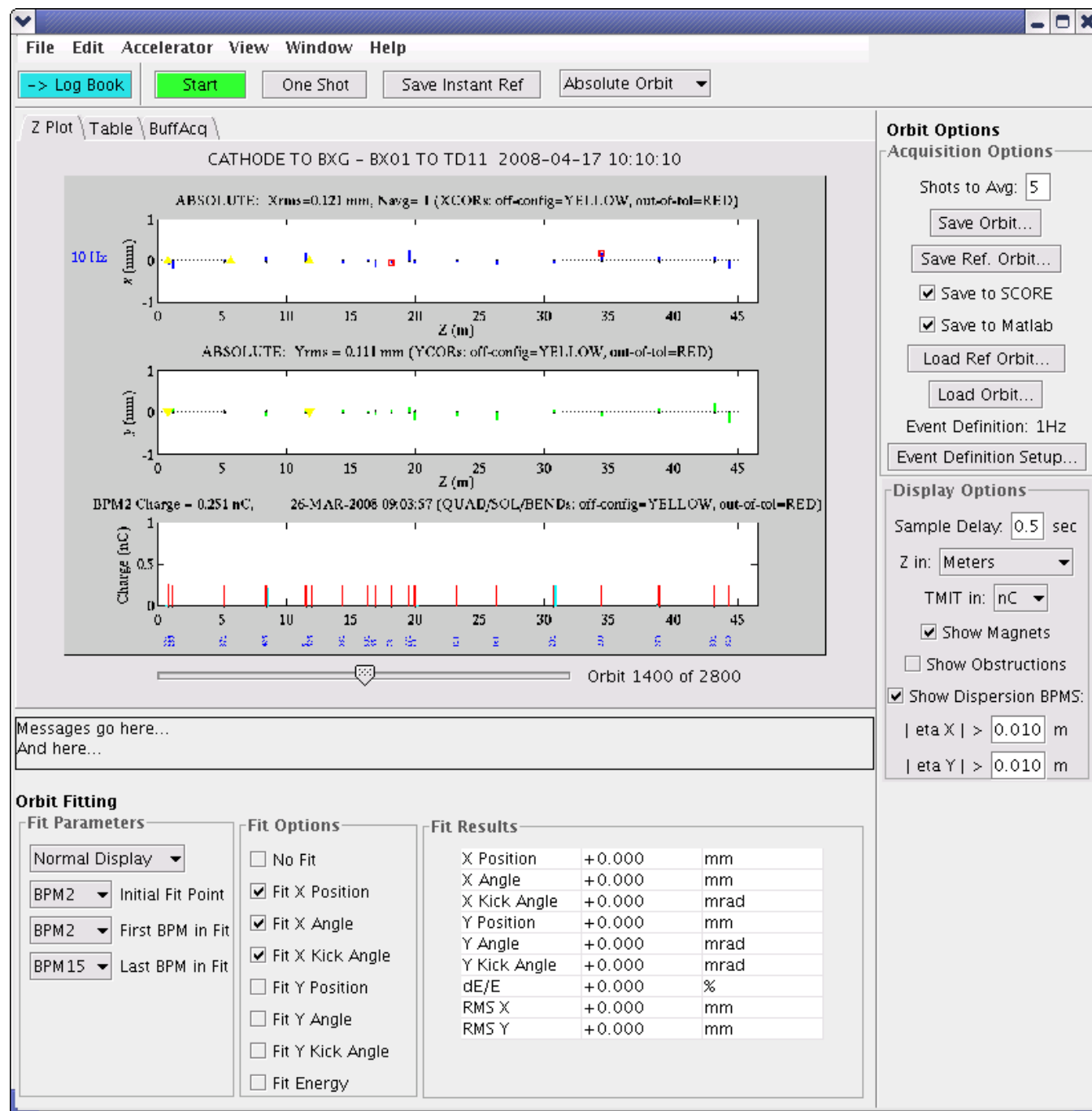


GUI Mockup



The screenshot displays the 'Orbit' software interface, which is used for analyzing particle beam parameters. The main window is titled 'Orbit' and contains several panels.

Top Panel: Includes a menu bar (File, Edit, Accelerator, View, Window, Help) and a toolbar with buttons for 'Log Book', 'Start', 'One Shot', 'Save Instant Ref', and a dropdown for 'Absolute Orbit'.

Table Panel: Displays a table of beam parameters for 'CATHODE TO BXG-BX01 TO TD11' on '2008-04-17 10:10:10'. The table has columns for 'Use', 'BPM', 'X (mm)', 'Y (mm)', 'TMIT (10e9 Nel)', 'rmsX (mm)', 'rmsY (mm)', and 'rmsTMIT (10e9 Nel)'. The 'Use' column has checkboxes for each row. The 'BPM' column lists BPM2 through BPM15. The 'X (mm)' and 'Y (mm)' columns show values in green or red. The 'TMIT (10e9 Nel)' column shows values in green or red. The 'rmsX (mm)', 'rmsY (mm)', and 'rmsTMIT (10e9 Nel)' columns show values in green or red.

Orbit Options Panel: Contains 'Acquisition Options' with buttons for 'Save Orbit...', 'Save Ref. Orbit...', 'Save to SCORE', 'Save to Matlab', 'Load Ref Orbit...', and 'Load Orbit...'. It also shows 'Event Definition: 1Hz' and a button for 'Event Definition Setup...'.

Display Options Panel: Includes 'Sample Delay: 0.5 sec', 'Z in: Meters', 'TMIT in: nC', and checkboxes for 'Show Magnets', 'Show Obstructions', and 'Show Dispersion BPMs:'. It also shows 'eta X' and 'eta Y' values.

Orbit Fitting Panel: Contains 'Fit Parameters' (Normal Display, BPM2, BPM2, BPM15), 'Fit Options' (No Fit, Fit X Position, Fit X Angle, Fit X Kick Angle, Fit Y Position, Fit Y Angle, Fit Y Kick Angle, Fit Energy), and 'Fit Results' (X Position, X Angle, X Kick Angle, Y Position, Y Angle, Y Kick Angle, dE/E, RMS X, RMS Y).

Messages Panel: A text area for messages, currently showing 'Messages go here...' and 'And here...'.

Orbit Diagram: A diagram showing the beam path from 'CATHODE' to 'BXG-BX01' to 'TD11'. The path is a straight line with a small circle at the end. The diagram is labeled 'Orbit 1400 of 2800'.

