Figure A shows a comparison of EEG frequency spectra between a control group and a NF1 group, with data indicated for both eyes closed and eyes open conditions. The spectral analysis reveals significant differences in alpha amplitude and frequency between the two groups, with the NF1 group displaying lower alpha amplitude and higher alpha frequency compared to the control group.

In Figure B, a histogram demonstrates the distribution of amplitude across different frequency bands (Delta, Theta, Alpha, Beta, Low gamma, High gamma) for the control and NF1 groups. The NF1 group exhibits reduced alpha amplitude and increased alpha frequency compared to the control group, as indicated by the bars for eyes closed and eyes open conditions.

Figures C and D provide a detailed comparison of alpha amplitude and frequency between the control (CNT) and NF1 groups. The histograms indicate that NF1 group shows a notable decrease in alpha amplitude and an increase in alpha frequency, especially for eyes closed conditions, compared to the control group. The asterisks denote statistical significance (*) and highly significant differences (***).

The data analysis suggests that the NF1 group experiences altered EEG patterns, characterized by lower alpha amplitude and higher alpha frequency during both eyes closed and eyes open conditions compared to the control group.