

Graph #1:

l e interpolation appears more rigid while b e interpolation is smoother and aligns better with the input.

Graph #2:

b q is smoother than l q .

Graph #3:

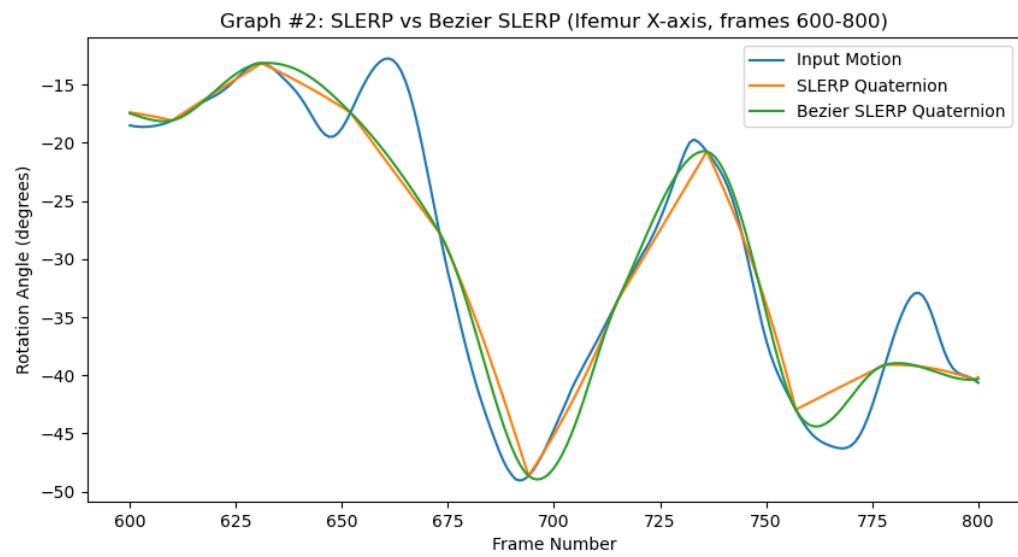
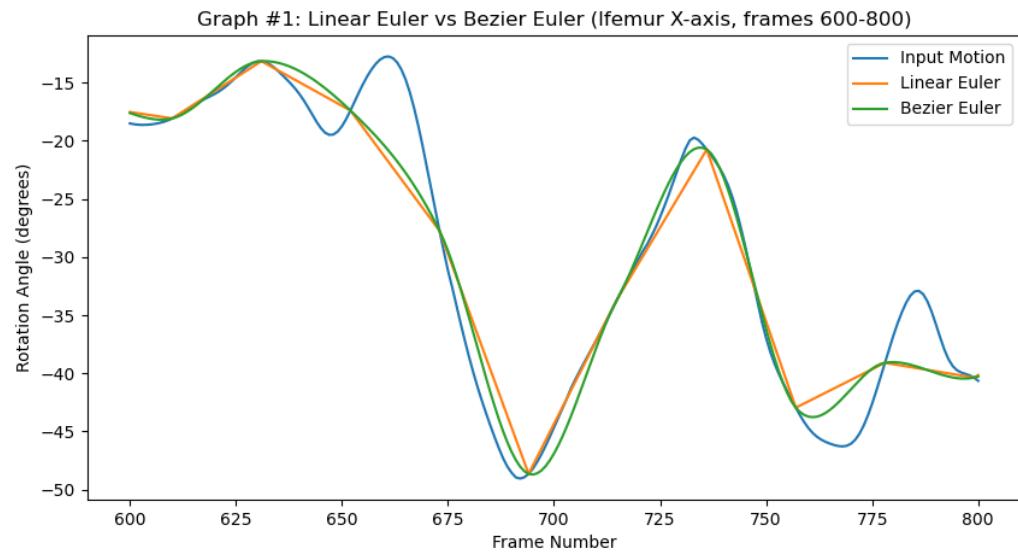
l e is too sharp while l q is smoother, though both of them cannot work well on non-monotonic curves between two frames.

Graph #4:

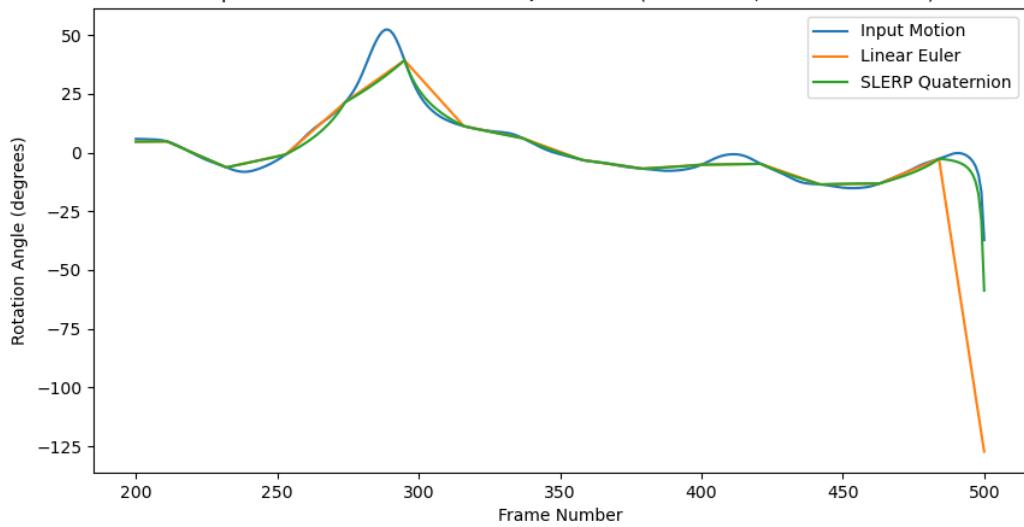
b e shows a way too sharp drop near frame 500 while b q performs much better. b q can even interpolate some non-monotonic curve well between two key frames

In conclusion, b works better than l and q works better than e . Bezier SLERP quaternion is likely the most suitable interpolation method.

However, it takes much longer to calculate. There's a trade off between the accuracy and calculation time.



Graph #3: Linear Euler vs SLERP Quaternion (root Z-axis, frames 200-500)



Graph #4: Bezier Euler vs Bezier SLERP Quaternion (root Z-axis, frames 200-500)

