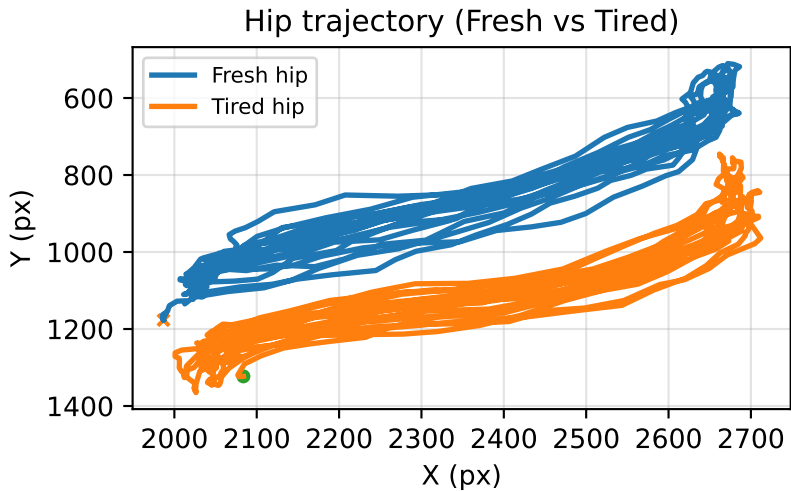
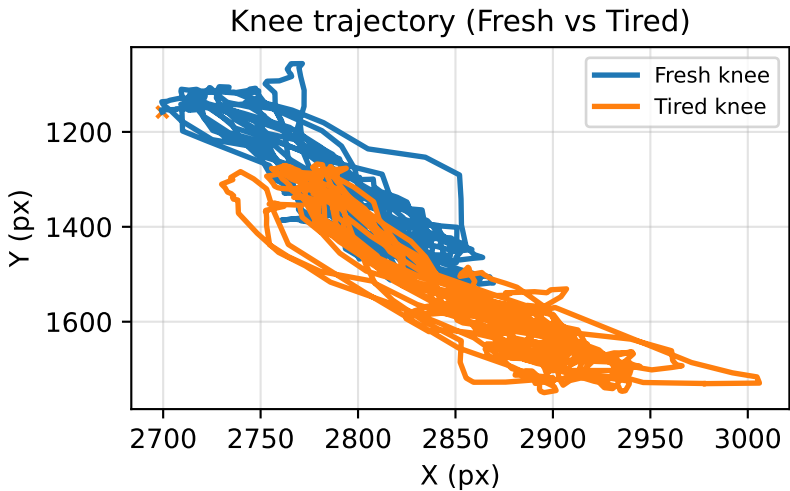
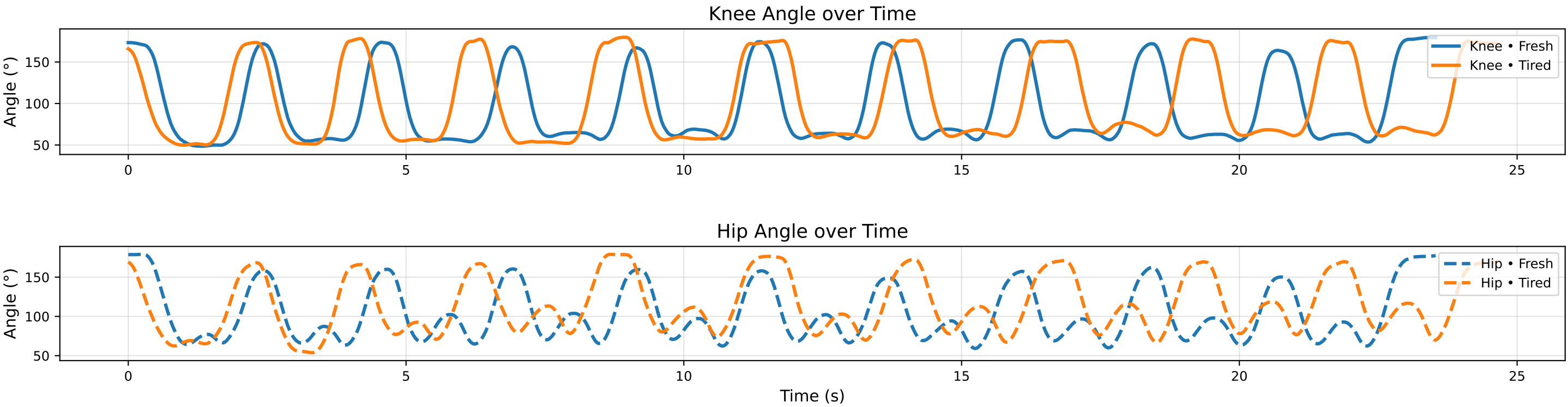


STS Performance Report for P04\_TAN ZHI JIE

Age: 20 • Gender: MALE • Side: LEFT • Exercise: Badminton • Duration of Exercise: 1 hour

Fresh: 707 frames @~30.0 fps • Tired: 740 frames @~30.0 fps



**Verdict: No Fatigue**  
DTW — Knee angle: 1255.5 • Hip angle: 2505.1 • Knee XY: 9451.9  
No thresholds exceeded.

Knee Angle Summary (Time-series)

Session	Mean (°)	SD	Min (°)	Max (°)	Range (°)	Frames
Fresh	95.93	44.92	48.58	179.34	130.76	707.00
Tired	102.60	48.21	49.93	179.83	129.90	740.00

Per-Rep & Trajectory Metrics (Fresh vs Tired)

Metric	Fresh	Tired	Δ (%)
Knee ROM (°)	114.36	77.58	-32.20
Hip ROM (°)	84.71	60.76	-28.30
Ascent time (s)	1.49	0.86	-42.10
Peak knee ang. vel (°/s)	350.13	359.63	2.70
Knee path length (px)	11283.65	12715.05	12.70
Knee mean speed (px/s)	479.48	516.17	7.70
Knee jerk RMS	103274.03	113289.41	9.70