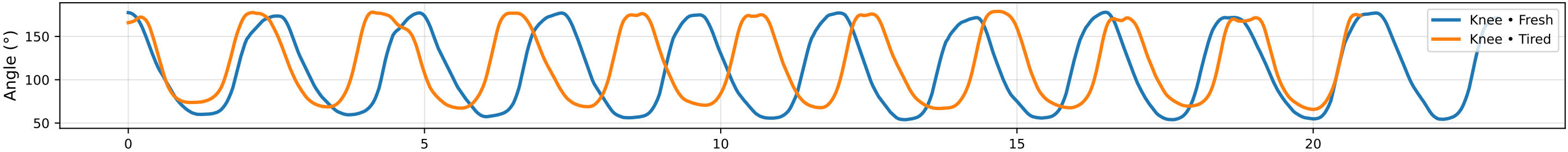


STS Performance Report for P05_KANG KIM LUWAN

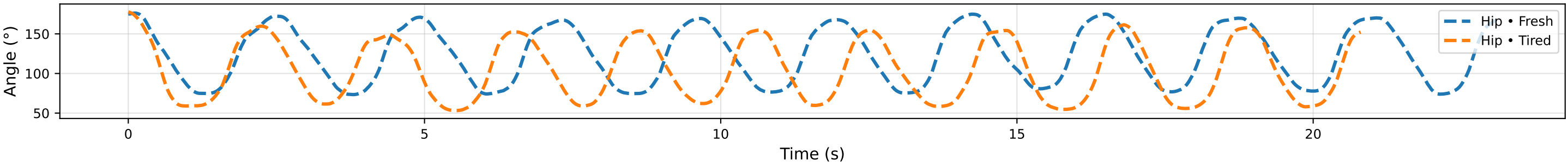
Age: 52 • Gender: FEMALE • Side: LEFT • Exercise: PICKLEBALL • Duration of Exercise: 1 hour

Fresh: 694 frames @~30.0 fps • Tired: 626 frames @~30.0 fps

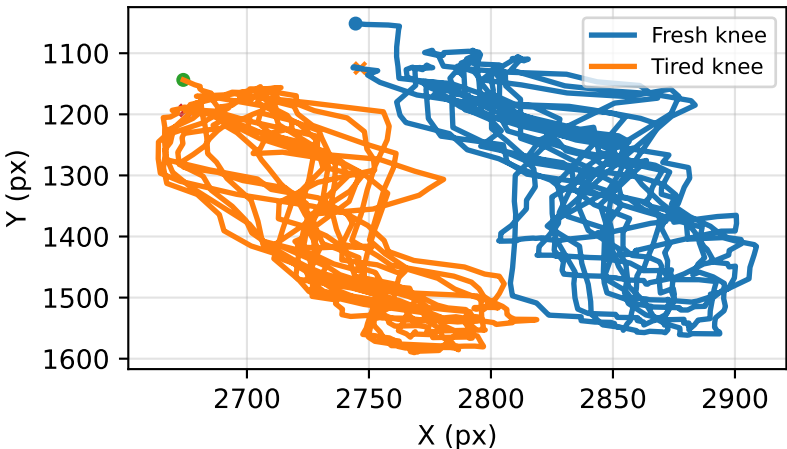
Knee Angle over Time



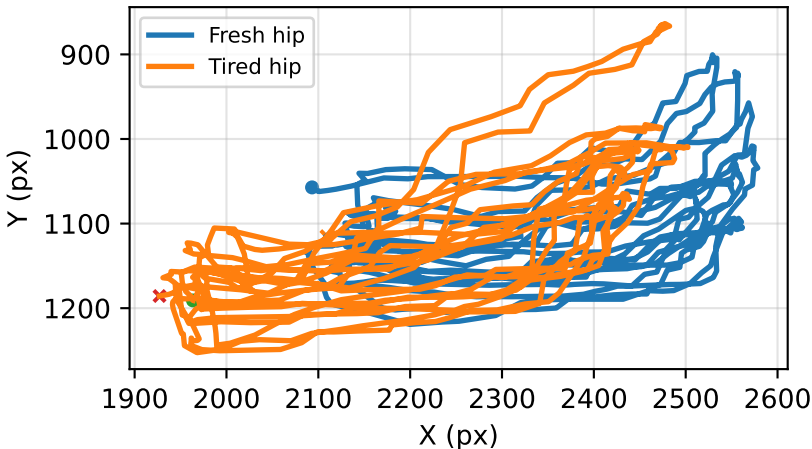
Hip Angle over Time



Knee trajectory (Fresh vs Tired)



Hip trajectory (Fresh vs Tired)



Verdict: Fatigue

DTW — Knee angle: 1664.3 • Hip angle: 2778.0 • Knee XY: 5313.3
Knee ROM ↓ 11.0°

Knee Angle Summary (Time-series)

Session	Mean (°)	SD	Min (°)	Max (°)	Range (°)	Frames
Fresh	110.65	44.86	53.89	177.93	124.04	694.00
Tired	117.13	41.55	65.79	178.87	113.08	626.00

Per-Rep & Trajectory Metrics (Fresh vs Tired)

Metric	Fresh	Tired	Δ (%)
Knee ROM (°)	119.02	106.75	-10.30
Hip ROM (°)	94.55	94.42	-0.10
Ascent time (s)	1.15	0.94	-17.90
Peak knee ang. vel (°/s)	295.82	311.89	5.40
Knee path length (px)	9470.61	8817.87	-6.90
Knee mean speed (px/s)	410.01	423.90	3.40
Knee jerk RMS	94157.58	82250.74	-12.60