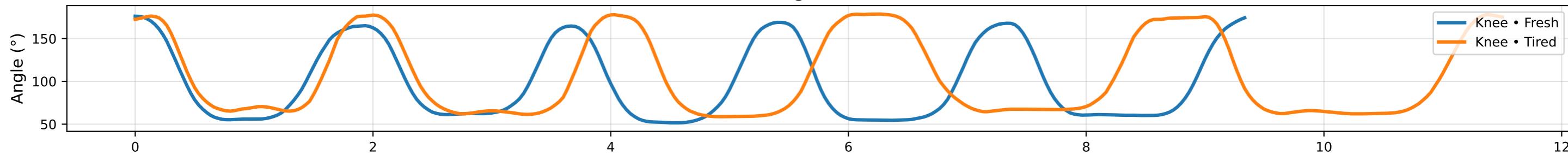


STS Performance Report for P02_TAN ZHI EN

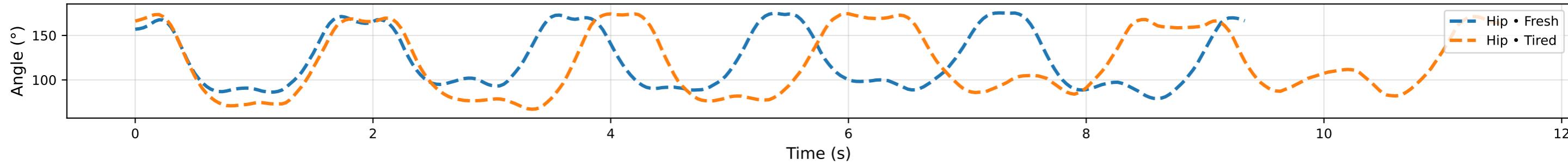
Age: 22 • Gender: MALE • Side: LEFT • Exercise: Futsal • Duration of Exercise: 2 hours

Fresh: 281 frames @~30.0 fps • Tired: 346 frames @~30.0 fps

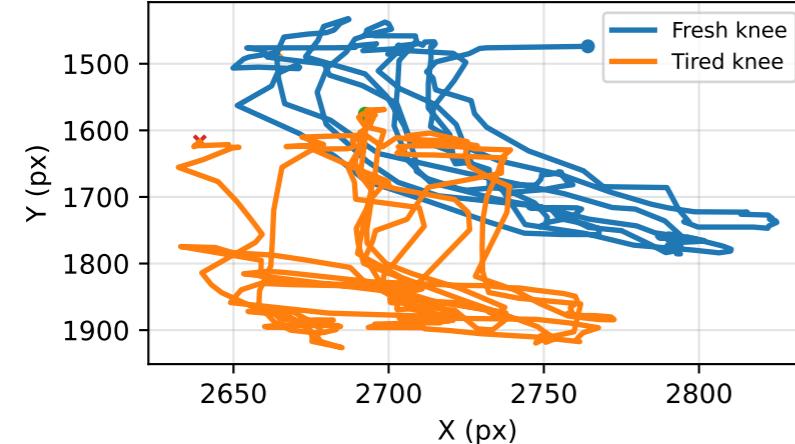
Knee Angle over Time



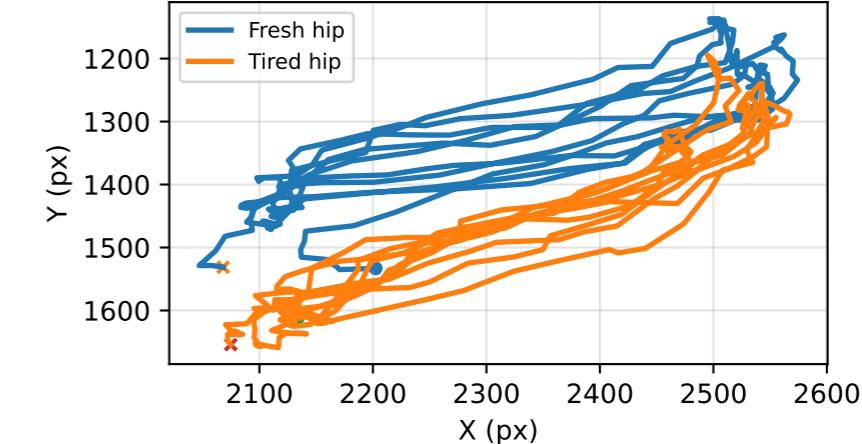
Hip Angle over Time



Knee trajectory (Fresh vs Tired)



Hip trajectory (Fresh vs Tired)



Verdict: No Fatigue

DTW — Knee angle: 1378.5 • Hip angle: 1765.0 • Knee XY: 5237.4

No thresholds exceeded.

Per-Rep & Trajectory Metrics (Fresh vs Tired)

Knee Angle Summary (Time-series)

Session	Mean (°)	SD	Min (°)	Max (°)	Range (°)	Frames
Fresh	98.54	43.21	51.61	176.08	124.47	281.00
Tired	105.91	45.99	58.75	178.58	119.83	346.00

Metric	Fresh	Tired	Δ (%)
Knee ROM (°)	110.96	91.80	-17.30
Hip ROM (°)	77.05	71.38	-7.40
Ascent time (s)	0.99	1.11	11.60
Peak knee ang. vel (°/s)	338.48	339.76	0.40
Knee path length (px)	3873.56	4679.30	20.80
Knee mean speed (px/s)	415.02	406.90	-2.00
Knee jerk RMS	90410.58	116215.67	28.50