



Scientific Research Project  
Biomechanical Analyses  
at the  
IAAF World Championships Daegu 2011

High Jump Men – Final  
(September 1, 2011)



Korean Society of Sport Biomechanics

## Biomechanical Analysis of the High Jump Men – Final

VARIABLE(unit)		Jesse Williams(USA)	Aleksey Dmitrik(RUS)	Trevor Barry(BAH)
Result(m)		2.35	2.35	2.32
Analyzed attempt		1	2	1
Time	1Phase(sec.)	0.17	0.10	0.17
	2Phase(sec.)	0.16	0.15	0.20
	3phase(sec.)	0.43	0.42	0.42
	1P : 2P(%)	51.5 : 48.5	40 : 60	45.9 : 54.1
angle	Maximum flexion angle of the knee joint during stride	138.1	149.0	123.1
	Knee joint at 2 <sup>nd</sup> touch(E3)	171.1	169.3	171.8
Relative Stride* (%)	1 <sup>st</sup> stride	54.6	52.3	51.2
	2 <sup>nd</sup> stride	45.4	47.7	48.8



Event & Phase