

## **Abstract**

**Title (Thema works):** 100 m men at WCH 2009 and its comparison with selected top competitions

**Student:** Bc. Veronika Šárová

**Supervisor:** PhDr. Aleš Kaplan, Ph.D.

**Aims of the Diploma Thesis:** Analyzing of sprinter performance in 100 m men at WCH in Berlin 2009 where notably records at sprints were broken. Another aim of this Diploma Thesis is comparison of results of 100 m men at WCH 2009 with results of studies which considered this problem solved in a similar way at selected top competitions. It includes studies which were solved in Diploma Thesis of Lukas Kafka from 2001 and my own Bachelor Thesis from 2008.

**Methodology of work:** we take up at methodical procedures which were used in Diploma Thesis of Lukas Kafka, Zuzana Peichlova and in my own Bachelor Thesis. We work with collection of sprinters finalists of the selected top competitions.

**Results of the thesis:** we discovered that five of six winners of 100 m men at observed WCH got the best performance in final races as well as all sprinters at third place and three sprinters who reached sixth place at observed WCH. Sprinters at eighth place at 100 m men did not get their best performance in a final race. We also discovered that the arithmetic mean of final times at 100 m men at observed top competitions was under 10 s only at WCH 2009. Only three winners of six observed WCH reached the time under 9,90 s at a final race. They were winners of WCH 2009, WCH 2007 and WCH 1997.

**Key words:** men 100 m sprint, structure of sprint achievement, sprinter characteristics, speed skills, technique of sprint