FIRST ANNOUNCEMENT AND CALL FOR PAPERS

JAF42
Journées sur les Arithmétiques Faibles
Weak Arithmetics Days

September 25–27, 2023, Karlovassi, Greece

Steering and Program Committee

Patrick Cégielski (Paris XII)
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Andrés Cordón-Franco (Seville)
Costas Dimitracopoulos (Athens)
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Alex Esbelin (Clermont-Ferrand)
Neil Thapen (Prague)

Local Organizing Committee

Charalampos Cornaros (U. of Aegean)
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Important Dates

Submission:	June 30, 2023
Notification:	July 30, 2023
Conference:	September 25-27, 2023

Conference Website

http://mathweb.aegean.gr/jaf42/

Aim. Weak Arithmetics play a fundamental role in several areas of philosophy, mathematics, and computer science by studying the nature and properties of natural numbers from a logical point of view. The aim of the conference is to provide a forum for researchers to present their results to members of communities who study or apply weak arithmetics in various fields and formalisms.

Previous meetings were held in Lyon (1990), Paris (1990), Clermont (1991), Paris (1991), Clermont (1992), Paris (1992), Clermont (1993, 1994), Fontainebleau (1994), Clermont (1995), Fontainebleau (1995), Paris (1996), Metz (1996), St-Petersburg (1997), Mons (1997), Warsaw (1998), Clermont (1999), New York (1999), Clermont (2000), Fontainebleau (2001), St-Petersburg (2002), Naples (2003), Yerevan (2004), Fontainebleau (2005), Clermont (2006), Sevilla (2007), Athens (2008), Fontainebleau (2009), Warsaw (2010), Paris (2011), Samos (2012), Athens (2013), Göteborg (2014), New York (2015), Lisbon (2016), St-Petersburg (2017), Florence (2018), New York (2019), Athens (2021).

Topics. Proofs in arithmetic with restricted systems of axioms. Non-standard models of such systems. Decidability, undecidability, and complexity of arithmetical theories. Definability in arithmetic structures. Machines, automata and words, related to arithmetic. Finite model theory.

Paper submission. Authors are invited to submit abstracts not exceeding *three pages* in the form of a pdf file to kornaros@aegean.gr. Submissions are to be received until June 30, 2023. Authors will be notified of acceptance until July 30, 2023.

Registration. To register, send your details (full name, affiliation, planned dates of arrival and departure) to kornaros@aegean.gr. We will have support for coffee breaks for all participants, but we will probably have to charge a small fee for lunches and the official dinner (more details will be available soon).