**WORKSHOP**

 **Direct and Large-Eddy Simulation 13**

 **October 26th -29th 2022, Udine, Italy**

**DLES13: THE NEXT ERCOFTAC WORKSHOP ON DNS AND LES**

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**INTRODUCTION**

 In October 26th -29th 2022, the 13th workshop on Direct

and Large-Eddy Simulation will be held in Udine, Italy.

 The official webpage of the workshop is [http://](http://easyconferences.eu/dles2022/)

[easyconferences.eu/dles2022/](http://easyconferences.eu/dles2022/)

 Please note that abstracts:

 • should be prepared using the files dles13.cls and

 dles13.sty according to the present template

 • should be submitted by May 1st, 2022

 • should have a maximum length of two pages including

  figures and references

 • should be submitted in pdf format only, not exceeding

 4 MB in size

 • instructions for submission are available in the workshop

 webpage: <http://easyconferences.eu/dles2022/>

**SECTION EXAMPLE, CITING**

 This is a first example of a section.

 Here you can also find examples of citing journal articles

[1] and papers in conference proceedings [2]. They can also

be cited in the following form: Bruno et al. [1].

**ANOTHER SECTION EXAMPLE, EQUATIONS**

 For equations, use the standard equation environment to

typeset your equations, e.g.

 *a b = c ,* (1)

however, for multiline equations we recommend to use the

eqnarray environment.

***a*** *x* ***b*** *=* ***c***

 ***a*** *·* ***b*** *= c*  (2)

**TABLE EXAMPLE**

 Please use tables as shown in Table 1. The LateX template is given below.

**FIGURE EXAMPLE**

 Figure 1 shows an example of figure. Eps or pdf versions of figures are possible.

**REFERENCES**

[1] Bruno, L., Salvetti, M.V. and Ricciardelli, F. : Benchmark

 on the aerodynamics of a rectangular 5:1 cylinder: and

 overview after the first four years of activity, *J. Wind*

 *Eng. Ind. Aerod.*, **126**, 87-106 (2014).

[2] Salvetti, M.V. and Bruno, L. : Reliability of LES simulations

 in the context of a benchmark on the aerodynamics of

 rectangular 5:1 cylinder, *Proc. of Direct and Large-Eddy*

 *Simulations 9, April 3-5, Dresden, Germany*, (2013).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Case | *f* | *fy /w* | *fz /w* | *Roy,ds* | *Roz,ds* |
| PL | 90 | 0 | 1.047 | 0 | 1.170 *·* 10-3 |
| ML | 45 | 0.735 | 0.735 | 8.215 *·* 10-3 | 8.215 *·* 10-3 |
| QE | 5 | 1.024 | 0.090 | 1.144 *·* 10-3 | 1.005 *·* 10-3 |

Table 1: Summary of computational cases considered at

*Reds* = 1790, *Rea* = 1.6 *·* 106.



Figure 1: BARC model and domain geometry for the compu- tational study.