

The new Science Portal and the Programmatic Interfaces of the ESO Science Archive

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Abstract. In June 2018 the new ESO science archive interfaces have become available to the astronomical community. Powerful new features allow a much richer user experience than ever before. Two are the main components: the interactive web access, i.e. the so-called Science Portal, and the VO-based programmatic and tool access.

The ESO Archive Science Portal provides interactive access via web pages to browse and explore the archive with interactive, iterative queries. The results are presented in real time in various tabular and/or graphic forms, including interactive previews, allowing an evaluation of the usefulness of the data which can then be selected for retrieval.

The direct database and Virtual Observatory access: The inherent limitation in the intuitive way that the web interface enables archive content to be discovered is that it is unsuited to more complex queries, such as those that include sequences with logical statements like *and*, *or*, *not*, or queries that join different sources of information. This restriction can be overcome by providing direct access to the ESO database tables. Extensive documentation is provided in terms of practical examples, which are intended to provide templates for users to customise and adapt to their specific needs.

In this first release, processed data from the LPO are supported. Future plans include expanding the support to ALMA processed data and raw data from the LPO. It is planned that these new access points will gradually replace the current ones for La Silla Paranal data, while ALMA will keep maintaining a dedicated, separate access.

1. The Template

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1.1. The Author Checklist

2. References

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Acknowledgments. The ASP would like to thank the dedicated researchers who are publishing with the ASP. It will make things a lot easier if you keep this text on the same line as the `\acknowledgements` command.