

INSTRUCTIONS FOR PRODUCING AN ABSTRACT FOR PUBLICATION  
IN BOOK OF ABSTRACTS USING L<sup>A</sup>T<sub>E</sub>X<sup>1</sup>

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An exact analytical method for the calculation of volume of overlapping spheres [1] is presented. In the considered procedure the volume is expressed as a surface integral of the second kind over the closed region [2]. Using the stereographic projection the surface integral is transformed to a sum of double integrals which are reduced to line integrals.

Slightly modified [3], this method can be used for calculation of the partially “free” volume of a separated sphere.

## References

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- [3] E. A. Hayryan, I. Pokorný, I. V. Puzynin, and J. Skřivánek, *Communication of the Joint Institute for Nuclear Research*, Dubna, E5-2001-225, (2001) 10 pp.

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