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Adiabatic and non-adiabatic dynamics of ions in the formation of electron excitation widths in metal clusters

1 Introduction.

; 2 Dynamical jellium model.

; 3 Conclusions.

; Acknowledgments

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References

; Fission decay of nuclei and the extension of the periodic system

Fission in (the light of) a quark-gluon liquid theory of the nucleons

1 Introduction

; 2 The baryonic string force in the nuclear

bag

; 3 Derivation of the baryonic

string force

; 4 Nuclear liquid systems 5

; 5 Phases of nuclear liquid state

; 6

Conclusion

; Acknowledgments

References

Sommario/riassunto

In this volume, the main results of the last sixty years of research in nuclear fission are summarized, showing how ideas advanced from the beginning, for nuclei have also found useful applications in the new area of atomic clusters. The present status of the physics of fission is discussed in depth, and perspectives for further research are outlined.

Contents:

Fission Studies with Large Detector

Arrays (J K Hwang et al.)

Fission, Decay of Nuclei and

the Extension of the Periodic System (W Greiner)

Neutron Halo of Fissile Nuclei (V I Serov et
