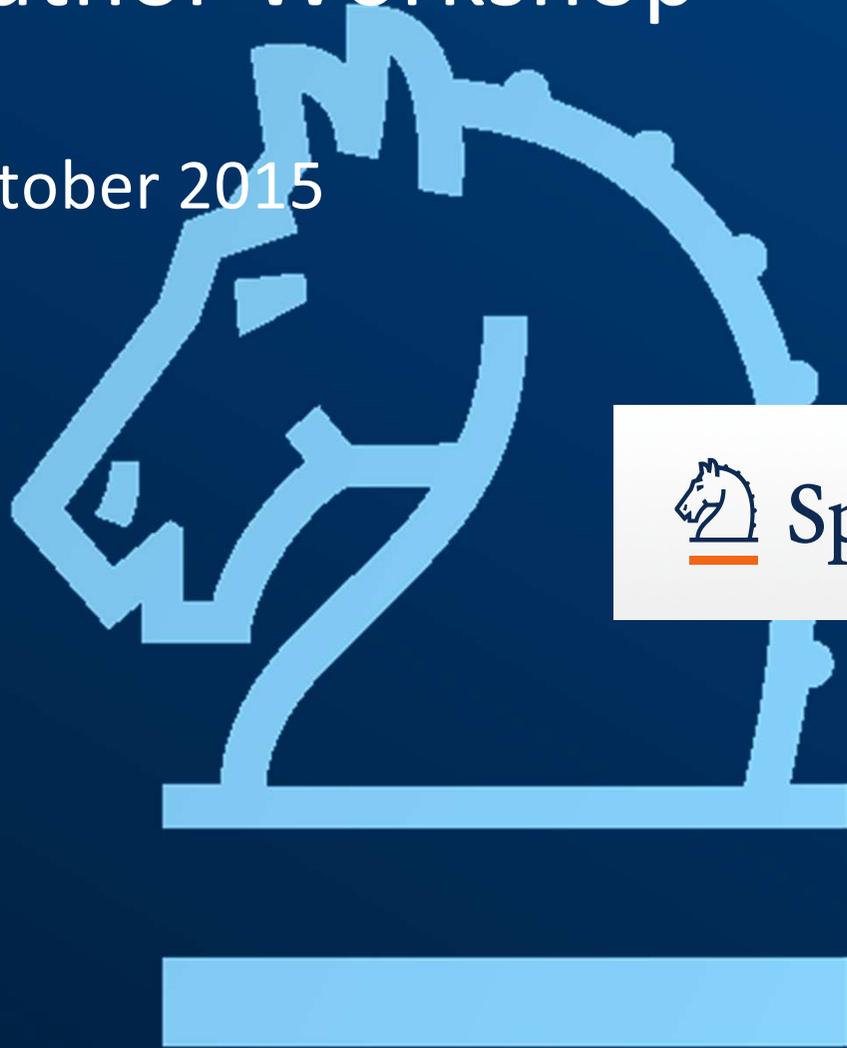


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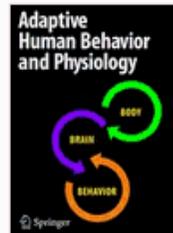


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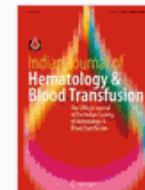
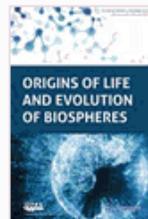
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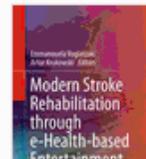
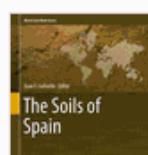


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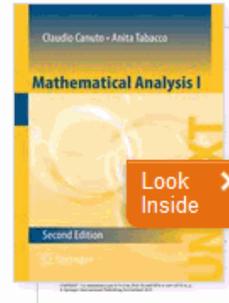
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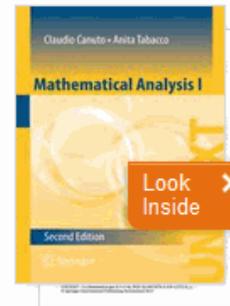
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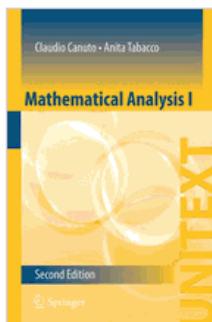
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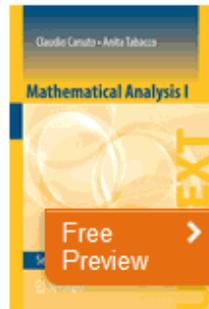
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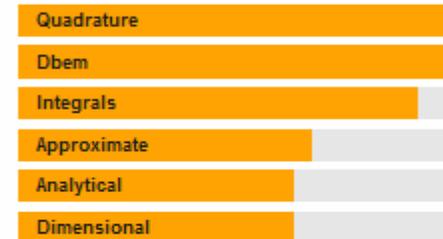
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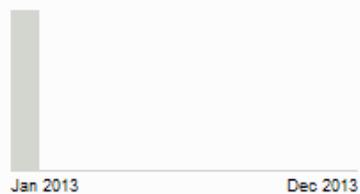
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By Panou, A. A.; Hatzidimitriou, P. M.; Theodoulidis, N.; Show all (8)

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The earthquake of June 20, 1978 (M6.5) near Thessaloniki, Greece, and the abundant information on damage distribution provided researchers with an opportunity for a more detailed study of earthquake effects. The damage

Retrospective Prediction of Macroseismic Intensities Using Strong Ground Motion Simulation: The Case of the 1978 Thessaloniki (Greece) Earthquake (M6.5)

Bulletin of Earthquake Engineering (2006-04-20) 4: 101-130 , April 20, 2006

By Theodoulidis, Nikolaos; Roumelioti, Zafeiria; Panou, Areti; Show all (8)

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The densely populated city of Thessaloniki (Northern Greece) is situated in the vicinity of active capable of producing moderate to strong earthquakes. The city has been severely affected by s

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The Greek mussel culture industry has experienced rapid development during the last decade. In years, it has also been faced with significant problems mainly due to toxic phytoplankton bloom

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Folia Geobotanica (2007-09-01) 42: 249-270 , September 01, 2007

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Thessaloniki's Detailed Microzoning: Subsurface Structure as Basis for Site Response Analysis

Earthquake Microzoning (2002-01-01): 2597-2633 , January 01, 2002

By Anastasiadis, Anastasios; Raptakis, Dimitrios; Pihlakis, Kyriazis

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The city of Thessaloniki is located in northern Greece, close to a large seismogenic area and it has experienced several destructive earthquakes during the present century. In this paper, we focus on the definition of the subsurface structure of the city from a site response analysis perspective. The paper presents, together with a summary of geology and seismicity, the results of a large-scale geophysical and geotechnical survey, in order to determine and validate geometry and dynamic properties of the main soil formations. The synthesis and combination of recent results regarding the dynamic properties with those obtained from the elaboration of a large database of classical geotechnical tests led to the design of a detail geotechnical map and of various 1-D profiles, 2-D cross sections and 3-D thematic maps for the main soil formations. These soil profiles and maps are oriented to site effect studies and provide a comprehensive picture easily adapted to geographic information systems (GIS) for planning and design purposes. Moreover, the results of this study were correlated with macroseismic observations reported in many earlier published microzonation studies of Thessaloniki. These comparative observations revealed the complexity of surface geology of the urban area, a fact which is expected to provoke additional amplification with respect to 1-D resonance.

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Abstract

The city of Thessaloniki is located in northern Greece, close to a large seismogenic area and it has experienced several destructive earthquakes during the present century. In this paper, we focus on the definition of the subsurface structure of the city from a site response analysis perspective. The paper presents, together with a summary of geology and seismicity, the results of a large-scale geophysical and geotechnical survey, in order to determine and validate geometry and dynamic properties of the main soil formations. The synthesis and combination of recent results regarding the dynamic properties with those obtained from the elaboration of a large database of classical geotechnical tests led to the design of a detail geotechnical map and of various 1-D profiles, 2-D cross sections and 3-D thematic maps for the main soil formations. These soil profiles and maps are oriented to site effect studies and provide a comprehensive picture easily adapted to geographic information systems (GIS) for planning and design purposes. Moreover, the results of this study were correlated with macroseismic observations reported in many earlier published microzonation studies of Thessaloniki. These comparative observations revealed the complexity of surface geology of the urban area, a fact which is expected to provoke additional amplification with respect to 1-D resonance.

Key words
Microzonation – site effects – subsoil structure – dynamic properties – geotechnical and thematic maps

Supplementary Material (0)

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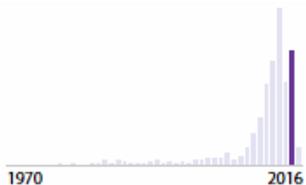
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... its mass. The final stages of low-mass and high-mass stars are also different: low-mass stars ...

... The core masses in C1 and C2, and those in high-mass protostellar objects suggest an ...

... the observed power-law behavior at the high-mass end of the IMF, we need to add complexity ...

... of objects is larger the rarer they are. High-mass peaks exceeding the density threshold ...

... requires both high resolving power and high mass spectral accuracy to increa

... Galaxy opens a new door to understand how high-mass stars form in the context of

... for analysis of peptides and proteins with high mass accuracy and reduced back

... MS n scans, and an orbitrap analyzer for high mass resolution and accurate ma

... ionization technique (IA-TOF). Although high mass resolution generally require

... regions using data-driven methods. In the high-mass region, additional decay mo

... an explanation as to why the b-ions in the high mass range are typically of lower

... to ToF, and benefit from intrinsic higher mass resolution and a reduction in

... ZZ**\$\$ H → Z Z + decay at slightly higher masses

... of approximately 700 cm, allowing both high mass resolution and high sensitivi

... has allowed to study IMF sampling at the high mass end and the concept of a cl

... heat sink. Such channels at relatively high mass flux have been studied [43,

... the phase space is generated in two parts: high mass "WZ" events with \$\$\$_{(f

... and (b) how cloud cores of both low and high mass that are super-critical subsequently ...



CO, HI and Star Formation in the Large Magellanic Cloud

Yasuo Fukui

Abstract The Large Magellanic Cloud is an ideal laboratory for studying cloud evolution and star cluster formation. We will review CO and HI observations and compare observational signatures of star formation with the molecular and atomic gas. High-mass star formation shows good spatial correspondence with CO, and the three types, Types I, II and III of GMCs, with different star formation activity represent an evolutionary sequence from the initial inactive phase to the subsequent highly active phase in star formation. The dense clumps within GMCs show a similar evolutionary trend on smaller scales. It is likely that star formation takes place rapidly in 1–10 Myr roughly close to the free-fall timescale at 10–100 pc. GMCs are enveloped by relatively dense HI having density of 100 cm⁻³. The envelope is continuously accreting onto the GMCs to increase the GMC mass with an average mass accretion rate of ~0.1 M_⊙ yr⁻¹. The HI filaments are formed by compression due to supergiant shells as seen in active cluster formation in 30 Dor, N159, N48, etc. Recent findings of the Galactic starburst regions suggest that the active high-mass star formation is often triggered by cloud-cloud collisions which cause efficient three dimensional compression of dense gas. The interface layer in such collisions creates higher turbulent speed and higher mass-accretion rate which facilitates rapid high-mass star formation in 10⁵ yrs.

1 Introduction

Our scientific goal is to better understand evolution of galaxies. Because stars are formed in massive molecular clouds, formation and evolution of molecular clouds will provide key to elucidate formation of stars which build up galaxies. The Milky Way is not suited for such a study because of heavy contamination in the Galactic plane. On the other hand, the Large Magellanic Cloud (LMC) is an ideal object for such a study since it is located nearly face-on at a distance of 50 kpc. The LMC is also unique in studying high-mass star formation because young high-mass stars in populous clusters and in OB associations are extremely rich. In particular the

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$\frac{\alpha_\gamma}{\beta}$

$\tilde{\beta}$

$\text{\hbox{PE}}$

"epsilon" AND "2pi"

"bar delta_q" OR "frac{dw}{dz}"

SAMPLE RESULT

Self-intersections of random walks on lattices

Acta Mathematica Hungarica (2002) 96:187-220, August 01, 2002

$$P(E_n^{(d)}, i.o.) = 0 \text{ or } 1$$

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1
result

Angular distributions of hadronic jet from the decay of W-boson produced with finite transverse momentum

Il Nuovo Cimento A (1965-1970) (1983) 75:307-323, June 01, 1983

EXACT

$$\sqrt{s} = 800$$

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1
result

A measurement of the forward-backward asymmetry of $e^+e^- \rightarrow b\bar{b}$ by applying a jet charge algorithm to lifetime tagged events

Zeitschrift für Physik C Particles and Fields (1995) 67:365-378, September

EXACT

$$A_{FB}^b = 0.062 \pm 0.034 \pm 0.002 - 0.082\Delta(\Gamma_{b\bar{b}}/\Gamma_{had})$$

$$at\sqrt{s} = 89.52 GeV,$$

$$A_{FB}^b = 0.0963 \pm 0.0067 \pm 0.0038 - 0.471\Delta(\Gamma_{b\bar{b}}/\Gamma_{had})$$

$$at\sqrt{s} = 91.25 GeV,$$

$$A_{FB}^b = 0.172 \pm 0.028 \pm 0.007 - 0.055\Delta(\Gamma_{b\bar{b}}/\Gamma_{had})$$

$$at\sqrt{s} = 92.94 GeV,$$

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1
result

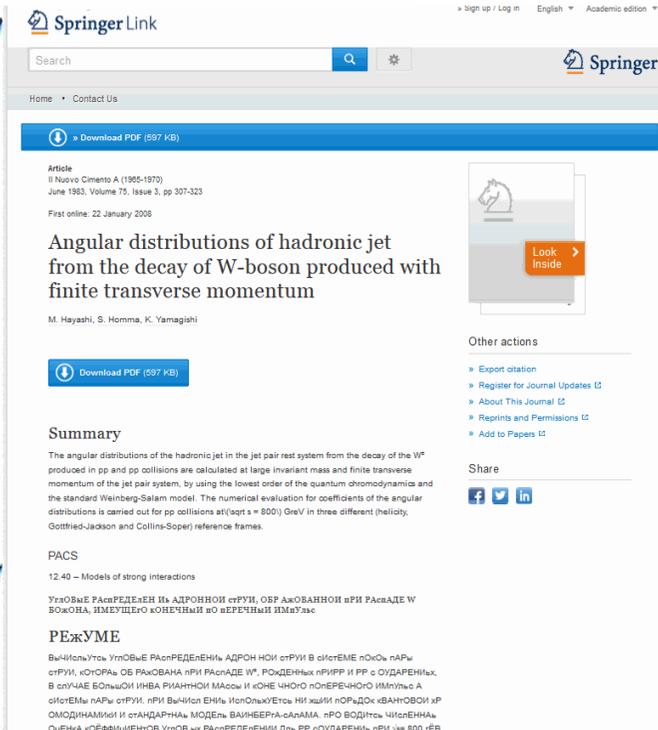
High-p T $\alpha\alpha$ and $\alpha\alpha'$ interactions

Zeitschrift für Physik C Particles and Fields (1986) 30:513-520, December

EXACT

$$\sqrt{s} = 88$$

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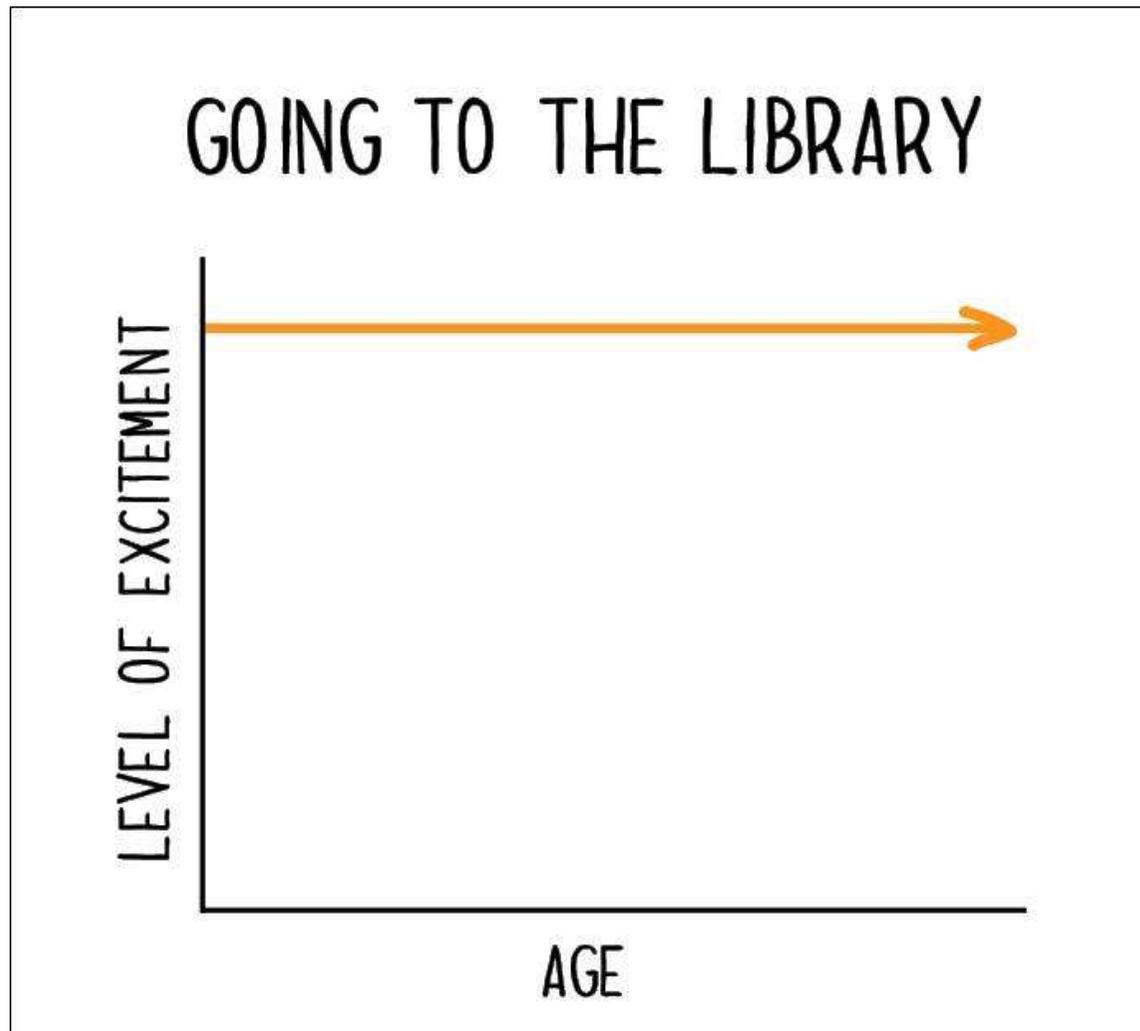
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