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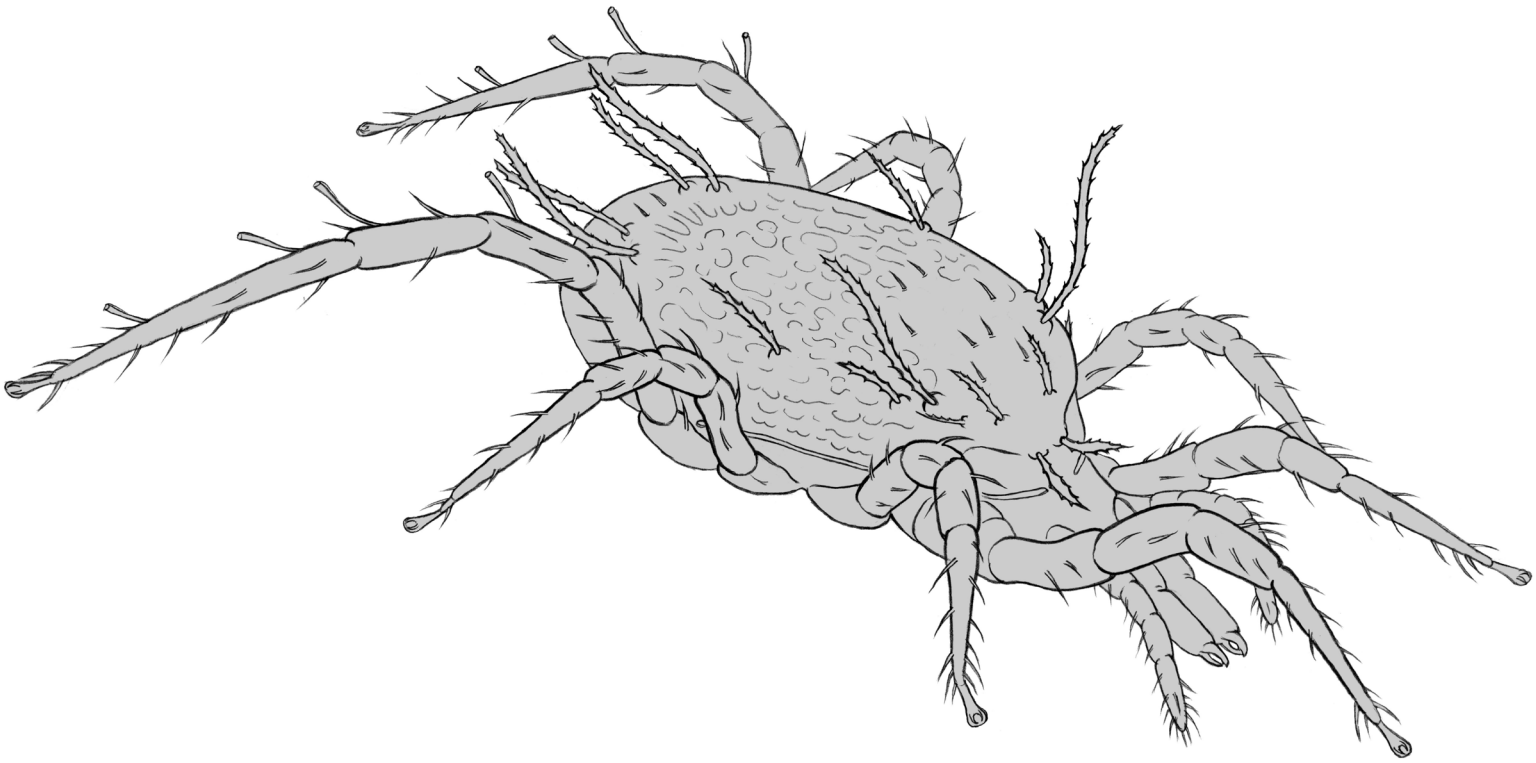

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Mesostigmata

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In the bibliography, the latest works on mesostigmatic mites as far as they have come to our knowledge are published yearly. The present volume includes 291 titles. In these publications, 66 new species and genera are described. The majority of articles concern ecology (50%), taxonomy (23%), faunistics (12%), biology (10 %) and the bee-mite Varroa (6%). Please inform us if we have failed to list all your publications in the Bibliographia.

The database on mesostigmatic mites already contains 17,711 papers and 17,777 taxa. Every scientist who sends keywords for literature researches can receive a list of literature or taxa. Please help us keep the database as complete as possible by sending us pdf files, reprints or copies of all your papers on mesostigmatic mites, or, if this is not possible, complete references. The literature from 1995 to 2019 is searchable on the Internet. The Bibliographia Mesostigmatologica of number 1 to 11 and the issues 1 to 19 of ACARI can be downloaded free of charge. **http://www.senckenberg.de/Acari**

We are endeavouring to expand the reference collections on mites and are interested in obtaining determined mite material. It goes without saying that the deposition of type material in the acarological collections of the Senckenberg Museum of Natural History Görlitz is also possible. The availability of our collections is guaranteed, as presently 3 scientists and technical personnel are working with the mite collections. Types and original descriptions are presented on the Internet.

Acarological literature

Literature quotations printed in bold type contain descriptions of new species. Titles marked with "*" were only found as a citation or abstract.

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Nomina nova

The names of new taxa are listed here as far as we have received the papers. Their validity was not examined here. The authors of new combinations and new synonyms are written in [brackets].

Type-material information as follows:

Ernogamasus papilio Witalinski & Fenda, 2020 (Page: 502[1]) – TYPES: HT[2] + PT[2] - NECJU[3], PT[2] - CUB[3]

1 – first page of the description

2 – holotype (HT), paratypes (PT) or syntypes (ST)

3 – abbreviations of the places of storage of new types, as far as they were cited in the publications

Abbreviations of the places of storage of new types

ACISTE - **A**carological **C**ollection, **I**nstitute of **S**cience and High **T**echnology and **E**nvironmental Sciences, Graduate University of Advanced Technology, Kerman, Iran

AGRCU - Zoology and Agricultural Nematology Department, Faculty of **AGR**iculture, **C**airo **U**niversity, Cairo, Egypt

AMU - **A**dam **M**ickiewicz **U**niversity, Department of Animal Morphology, Poznan, Poland

ANIC - **A**ustralian **N**ational **I**nsect **C**ollection, CSIRO Division of Entomology, Canberra, Australia

ARCD - **A**gricultural **R**esearch **C**entre, Plant Protection Research Institute, **D**okii, Giza, Egypt

BPBM - **B**ernice **P**. **B**ishop **M**useum, Honolulu, Hawai

CBGP - **C**entre de **B**iologie et de **G**estion des **P**opulations, Montferrier-sur-Lez, France

CNC - **C**anadian **N**ational **C**ollection of Insects, Arachnids and Nematodes, Ottawa, Canada

CUB - **C**omenius **U**niversity, Faculty of Sciences, Department of Zoology, **B**ratislava, Slovakia

DBPU - **D**epartment of **B**iology of **P**amukkale **U**niversity, Denizli, Turkey

DPPIAU - **D**epartment of **P**lant **P**rotection, College of Agriculture and Natural Reseources, Science and Research Branch, **I**slamic **A**zad **U**niversity, Tehran, Iran

DPPZ - **D**epartment of **P**lant **P**rotection, College of Agricultrue, University of Zabol, **Z**abol, Iran

DZSJRP - **D**epartamento de **Z**oologia, Campus de **S**.**J**. do **R**io **P**reto, Universidade Estadual Paulista, Sao Paulo, Brazil

ESALQ/USP - **E**scola **S**uperior de **A**gricultura "**L**uiz de **Q**ueiroz", **U**niversidade de **S**ao **P**aulo, Departamento de Entomologia e Acarologia, Piracicaba, Brazil

ESAM - **E**gyptian **S**ociety of **A**carology **M**useum, Zoology and Agricultural Nematology Department, Faculty of Agriculture, Cairo University, Giza governorate, Egypt

FAAS - **F**ujian **A**cademy of **A**gricultural **S**ciences, Plant Protection Research Institute, Fuzhou, China

GIABR - **G**uangdong **I**nstitute of **A**pplied **B**iological **R**esources, Guangzhou, China

GUGC - **G**uizhou **U**niversity, Institute of Entomology, **G**uiyang, Guizhou, **C**hina

HNHM - **H**ungarian **N**atural **H**istory **M**useum, Budapest, Hungary

INPA - **I**nstituto **N**acional de **P**esquisas da **A**mazonia, Manaus, Brazil

INRA - **I**nstitut **N**ational de la **R**echerche **A**gronomique, Montferrier-sur-Lez, France

IRSNB - L'**I**nstitut **R**oyal des **S**ciences **N**aturelles, **B**ruxelles, Belgium

JAZM - **J**alal **A**fshar **Z**oological **M**useum, Acarological Collection, University of Tehran, Karaj, Iran

KWU - **K**azimierz **W**ielki **U**niversity, Department of Evolutionary Biology, Bydgoszcz, Poland

MBUCV - **M**useo de **B**iologia, **U**niversidad **C**entral de **V**enezuela, Caracas, Venezuela

MHNG - **M**uséum d'**H**istoire **N**aturelle, **G**enèva, Switzerland

MNCN - **M**useo **N**acional de **C**iencias **N**aturales, Madrid, Spain

MUSM - **M**useo de Historia Natural, **U**niversidad Nacional Mayor de **S**an **M**arcos, Lima, Peru

MZUNAV - **M**useum of **Z**oology, **U**niversity of **NAV**arra, Pamplona, Spain

NECJU - **N**ature **E**ducation **C**entre, **J**agiellonian **U**niversity, Kraków, Poland

OSAL - **O**hio **S**tate University, Museum of Biological Diversity, **A**carology **L**aboratory, Columbus, Ohio, USA

SCUA - Insect and Mite Collection of Ahvaz, Department of Plant Protection, **S**hahid **C**hamran **U**niversity, **A**hvaz, Iran

SMNG - **S**enckenberg **M**useum für **N**aturkunde **G**örlitz, Görlitz, Germany

SupAgro/INRA - Centre International d'Études **Sup**érieures en Sciences **Agro**nomiques / L'**I**nstitut **N**ational de la **R**echerche **A**gronomique, Montpellier, France

TSUMZ - **T**yumen **S**tate **U**niversity **M**useum of **Z**oology, Tyumen, Russia

UESC - **U**niversidade **E**stadual de **S**anta **C**ruz, Laborátoria de Entomologia, Ilhéus, Bahia, Brazil

UNESP - **UN**iversidade **ES**tadual **P**aulista, Campus de Sao José do Rio Preto, Sao Paulo, Brazil

ZISP - **Z**oological **I**nstitute of the Russian Academy of Sciences, **S**aint **P**etersburg, Russia

ZMUB - **Z**oological **M**useum, **U**niversity **B**ergen, Bergen, Norway

ZSM - **Z**oologische **S**taatssammlungen **M**ünchen, München, Germany

New species

Amblydromalus itacoatiarensis Demite, Cavalcante & Lofego, 2019 (Page: 2484) – TYPES: HT + PT - UNESP, PT - ESALQ/USP

Amblyseius djenaeli Kreiter, 2020 (Page: 151) – TYPES: HT + PT - SupAgro/INRA

Ameroseius hainanensis Ma, Lin & Fu, 2019 (Page: 139) – TYPES: HT - FAAS

Blattisocius flagellatus Hassan, Ali & Nasr, 2020 (Page: 392) – TYPES: HT + PT - AGRCU

Blattisocius migratoriae Abo-Shnaf, 2020 (Page: 9) – TYPES: HT - ESAM, PT - SupAgro/INRA

Centrouropoda bahariyaensis Abo-Shnaf & Allam, 2019 (Page: 502) – TYPES: HT + PT - ESAM, PT - INRA

Chelaseius longicervix Ferragut, 2020 (Page: 1126) – TYPES: HT + PT - MNCN

Cornigamasus allotritosternus Yao, Guo, Yi & Jin, 2020 (Page: 463) – TYPES: HT + PT - GUGC

Cosmolaelaps ceylonensis Joharchi, Ermilov & Khaustov, 2020 (Page: 152) – TYPES: HT + PT - TSUMZ, PT - ZISP

Cosmolaelaps trichiurus Joharchi, Ermilov & Khaustov, 2020 (Page: 159) – TYPES: HT + PT - TSUMZ

Discotrachytes vanharteni Kontschán, 2020 (Page: 1088) – TYPES: HT + PT - MHNG

Ernogamasus papilio Witalinski & Fenda, 2020 (Page: 502) – TYPES: HT + PT - NECJU, PT - CUB

Euseius dominativus Fang & Wu, 2019 (Page: 1920) – TYPES: HT + PT - GIABR

Euseius longisaccatus Fang & Wu, 2019 (Page: 1926) – TYPES: HT + PT - GIABR

Euseius mandalyensis Fang & Wu, 2019 (Page: 1919) – TYPES: HT + PT - GIABR

Gaeolaelaps azul Marticorena, Moreira & Moraes, 2020 (Page: 334) – TYPES: HT + PT - ESALQ/USP

Gaeolaelaps bochkovi Joharchi, Khaustov & Ermilov, 2019 (Page: 222) – TYPES: HT + PT - TSUMZ

Gaeolaelaps cerrii Marticorena, Moreira & Moraes, 2020 (Page: 338) – TYPES: HT + PT - ESALQ/USP

Gaeolaelaps kanati Joharchi & Issakova, 2020 (Page: 484)

– TYPES: HT + PT - TSUMZ

Gaeolaelaps littoralis Kazemi, 2020 (Page: 131) – TYPES: HT + PT - ACISTE

Gamasellodes lavafesii Castro, Azevedo & Castilho, 2020 (Page: 292) – TYPES: HT + PT - ESALQ/USP

Gamasodes pachysetis Yao & Jin, 2020 (Page: 1300) – TYPES: HT + PT - GUGC

Laelaspis latisetus Saravani Rad, Ramroodi, Joharchi & Sahebzadeh, 2019 (Page: 125) – TYPES: HT + PT - DPPZ, PT - JAZM

Lasioseius clavametapodalis Ma & Lin, 2019 (Page: 138) – TYPES: HT + PT - FAAS

Lasioseius orangrimbae Quintero-Gutiérrez & Sandmann, 2020 (Page: 340) – TYPES: HT + PT - OSAL, PT - SMNG

Leioseius sepidehae Kazemi, 2019 (Page: 1321) – TYPES: HT + PT - ACISTE

Leonseius elbanhawyi Carvalho, Ferragut & Oliveira, 2019 (Page: 2126) – TYPES: HT + PT - UESC, PT - DZSJRP, ESALQ/USP

Neogamasus biannulendogynii Ma & Lin, 2019 (Page: 132) – TYPES: HT + PT - FAAS

Neoseiulus laetus Ferragut, 2020 (Page: 1115) – TYPES: HT + PT - MNCN

Neoseiulus uncinatus Ferragut, 2020 (Page: 1120) – TYPES: HT + PT - MNCN

Occigamasus lindquisti Juvara-Bals, 2019 (Page: 552) – TYPES: HT + PT - CNC, PT - MHNG

Occigamasus makarovae Juvara-Bals, 2019 (Page: 562) – TYPES: HT + PT - CNC, PT - MHNG

Olopachys magnoexudatus Moghimi, Ahadiyat, Kiadaliri & Karaca, 2019 (Page: 428) – TYPES: HT + PT - DPPIAU, PT - JAZM

Onchodellus masani Ahadiyat, Ghasemi Moghadam & Abutaleb Kermani, 2020 (Page: 49) – TYPES: HT + PT - DPPIAU

Oodinychus scolytana Kontschán, Szöcs, Kiss & Khaustov, 2019 (Page: 1594) – TYPES: HT - MHNG, PT - HNHM, TSUMZ

Ophiomegistus rex Halliday & Grimm-Seyfarth, 2019 (Page: 2351) – TYPES: HT + PT - ANIC

Origmatrachys mahnerti Kontschán, 2020 (Page: 422) – TYPES: HT + PT - MHNG

Parichoronyssus alexanderfaini Morales-Malacara & Guerrero, 2020 (Page: 405) – TYPES: HT + PT - IRSNB, PT - MBUCV

Parichoronyssus gettingeri Morales-Malacara & Guerrero, 2020 (Page: 410) – TYPES: HT + PT - MBUCV, PT - IRSNB

Periglischrus empheresotrichus Morales-Malacara, Castano-Meneses & Klompen, 2020 (Page: 421) – TYPES: HT + PT - BPBM, PT - CNC

Phytoscutus moraesi Demite, Cruz & Cavalcante, 2019 (Page: 1534) – TYPES: HT + PT - ESALQ/USP, PT - UNESP, INPA

Phytoseius feresi Demite & Cavalcante, 2020 (Page: 1351) – TYPES: HT + PT - ESALQ/USP

Phytoseius pseudoincisus Fang & Wu, 2019 (Page: 1930) – TYPES: HT + PT - GIABR

Phytoseius tixierae Kreiter, 2020 (Page: 99) – TYPES: HT + PT - CBGP

Pogonolaelaps termitophilus Joharchi, Ramroodi & Halliday, 2020 (Page: 470) – TYPES: HT + PT - DPPZ, PT - JAZM, TSUMZ

Proprioseiopsis aegypticus Abo-Shnaf, Momen & Lamlom, 2019 (Page: 450) – TYPES: HT - ESAM, PT - ARCD, SupAgro/INRA

Proprioseiopsis gizaensis Abo-Shnaf, Hassan & Lamlom, 2019 (Page: 452) – TYPES: HT - ESAM, PT - ARCD, SupAgro/INRA

Protogamasellus pantanal Yamada & Moraes, 2020 (Page: 347) – TYPES: HT + PT - ESALQ/USP

Prozercon miraci Urhan, Karaca & Duran, 2020 (Page: 18) – TYPES: HT + PT - DBPU

Reticulolaelaps caditanus Moraza, 2019 (Page: 375) –

TYPES: HT + PT - MZUNAV

Rotundabaloghia (Circobaloghia) dillerae Błoszyk, Friedrich & Skoracki, 2020 (Page: 48) – TYPES: HT - MUSM, PT - ZSM, AMU

Trachygamasus hyalinus Yao, Jin & Zhang, 2019 (Page: 1466) – TYPES: HT + PT - GUGC

Trachygamasus karuni Farahi & Witalinski, 2019 (Page: 440) – TYPES: HT + PT - NECJU, PT - SCUA

Trachygamasus minutus Yao & Jin, 2020 (Page: 634) – TYPES: HT + PT - GUGC

Trachygamasus multisetus Yao, Jin & Zhang, 2019 (Page: 1470) – TYPES: HT + PT - GUGC

Trachygamasus psuedogerdi Yao, Jin & Zhang, 2019 (Page: 1478) – TYPES: HT + PT - GUGC

Trachygamasus similis Yao & Jin, 2020 (Page: 639) – TYPES: HT + PT - GUGC

Transeius maelliae Kreiter, 2020 (Page: 143) – TYPES: HT + PT - SupAgro/INRA

Transeius mickaeli Kreiter, 2020 (Page: 144) – TYPES: HT + PT - SupAgro/INRA

Uroseius foetidus Moraza & Pérez-Martinez, 2019 (Page: 932) – TYPES: HT + PT - MZUNAV, PT - CNC

Zercon kadiri Karaca, 2019 (Page: 262) – TYPES: HT + PT - DBPU

Zercon utemisovi Kaczmarek, Marquardt & Jangazeiva, 2020 (Page: 52) – TYPES: HT + PT - KWU, PT - ZMUB

New genera

Occigamasus Juvara-Bals, 2019 (Page: 553) – Typ. sp.: *Occigamasus lindquisti* Juvara-Bals, 2019

New subfamily

Africoseiinae Rueda-Ramirez, Santos, Sourassou, Demite, Puerta-González & Moraes, 2019 (Page: 2388) – Typ. gen.: *Africoseius* Krantz, 1962

New combinations

Discotrachytes ehimensis (Hiramatsu, 1979) – [Kontschán, 2020: 1086]

Discotrachytes granata (Hiramatsu & Hirschmann, 1978) – [Kontschán, 2020: 1087]

Discotrachytes grandis (Hiramatsu & Hirschmann, 1979) – [Kontschán, 2020: 1087]

Discotrachytes granosa (Hiramatsu & Hirschmann, 1978) – [Kontschán, 2020: 1087]

Discotrachytes orbis (Vitzthum, 1925) – [Kontschán, 2020: 1087]

Discotrachytes ornata (Hiramatsu & Hirschmann, 1978) – [Kontschán, 2020: 1087]

Discotrachytes procera (Hiramatsu & Hirschmann, 1979) – [Kontschán, 2020: 1087]

Discotrachytes procerasimilis (Hiramatsu & Hirschmann, 1979) – [Kontschán, 2020: 1087]

Discotrachytes regia (Vitzthum, 1921) – [Kontschán, 2020: 1087]

Discotrachytes regiasimilis (Hirschmann, 1972) – [Kontschán, 2020: 1087]

Discotrachytes verrucosa (Hiramatsu, 1980) – [Kontschán, 2020: 1087]

Hypoaspisella asperata (Berlese, 1904) – [Joharchi & Negm, 2020: 501]

Hypoaspisella spiculifer (Berlese, 1918) – [Joharchi, Hugo-Coetzee, Ermilov & Khaustov, 2020: 56]

Nenteria egypticus (Abo-Shnaf, El-Bishlawy & Allam, 2018) – [Kontschán, Szöcz, Kiss & Khaustov, 2019: 1599]

Occigamasus californicus (Banks, 1904) – [Juvara-Bals, 2019: 568]

Oodinychus hirsuta (Hirschmann, 1972) – [Kontschán, Szöcz, Kiss & Khaustov, 2019: 1600]

Oodinychus rafalski (Wisniewski & Hirschmann, 1984) – [Kontschán, Szöcz, Kiss & Khaustov, 2019: 1600]

Oodinychus wilkinsoni (Hirschmann & Wisniewski, 1986) – [Kontschán, Szöcz, Kiss & Khaustov, 2019: 1600]

Origmatrachys angustioculata (Hirschmann, 1976) – [Kontschán, 2020: 421]

Origmatrachys boliviensis (Hirschmann, 1976) – [Kontschán, 2020: 421]

Origmatrachys chimboensis (Kontschán, 2011) – [Kontschán, 2020: 422]

Origmatrachys costaricana (Kontschán, 2011) – [Kontschán, 2020: 422]

Origmatrachys dicarinata (Hirschmann, 1976) – [Kontschán, 2020: 421]

Origmatrachys dicarinatasimilis (Hirschmann, 1976) – [Kontschán, 2020: 421]

Origmatrachys dictyoeides (Hirschmann, 1976) – [Kontschán, 2020: 421]

Origmatrachys ecuadorica (Kontschán, 2011) – [Kontschán, 2020: 422]

Origmatrachys gracilis (Hirschmann, 1976) – [Kontschán, 2020: 422]

Origmatrachys origmophora (Hirschmann, 1976) – [Kontschán, 2020: 422]

Origmatrachys pesici (Kontschán, 2011) – [Kontschán, 2020: 422]

Origmatrachys reticulata (Hirschmann, 1976) – [Kontschán, 2020: 422]

Origmatrachys woelkeri (Hirschmann, 1976) – [Kontschán, 2020: 422]

New synonyms

Africoseius americanus Karg & Schorlemmer, 2009 – [Rueda-Ramirez, Santos, Sourassou, Demite, Puerta-González & Moraes, 2019: 2375]
= Africoseius lativentris (Karg, 1982)

Neoseiulus barreti Kreiter in Furtado, Kreiter, Moraes, Tixier, Flechtmann & Knapp, 2005 – [Kreiter, Payet, Douin, Fontaine, Fillatre & Le Bellec, 2020: 121]
= Neoseiulus houstoni (Schicha, 1987)

Neoseiulus recifensis Gondim & Moraes, 2001 – [Kreiter, Payet, Douin, Fontaine, Fillatre & Le Bellec, 2020: 121]
= Neoseiulus houstoni (Schicha, 1987)

Protogamasellus primitivus machadoi Genis, Loots & Ryke, 1967 – [Kazemi, 2019: 1325]
= Protogamasellus mica (Athias-Henriot, 1961)

Protogamasellus primitivus similis Genis, Loots & Ryke, 1967 – [Kazemi, 2019: 1325]
= Protogamasellus mica (Athias-Henriot, 1961)

New names

Hypoaspis oryctes Joharchi, 2020 pro Hypoaspis elegans Joharchi, Ostovan & Babaeian, 2014 – [Joharchi, 2020: 207]

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