

Dear participants of session GD4.3/GMPV4.5

**Geochemical and geodynamic perspectives on the origin and evolution of deep-seated mantle melts and their interaction with the lithosphere**

Conveners : Igor Ashchepkov; Sonja Aulbach, Kate Kiseeva, Evgenii Sharkov

We will start the discussion at 8:30 CET on Monday 5May, and it will last until 12:30 CET, although the chat will remain active for 30 min more. This is how we plan to carry on the session:

- Every contribution will get about 5-10 minutes of discussion • The conveners will introduce the contribution (title, authors,..)
- The presenting authors will give a short summary/introduction (2-3 sentences) of their work (@ authors, please prepare these in advance).
- Discussion with participants If time permits, we will have a more general discussion after all contributions have been presented. Here's the order of the presentations

Chat time: 8:30–10:45

Chair person Kate Kiseeva

**The transition between solitary wave and diapir emergence from a high porosity disturbance in two-ph[...]**

**Janik Dohmen** and Harro Schmeling

**The oxygen content of sulphide inclusions in diamonds and its use as a mantle geothermometer**

**Sumith Abeykoon** et al.

**Syenite formation after TTG gneiss: evidence from the Madiapala massif (Limpopo complex, South Afric[...]**

**Natalia Seliutina** et al.

**Modeling of magmatic channel formation in thin lithosphere areas**

**Yuri Perepechko** et al.

**Features of heat and mass transfer processes under the Avachinsky volcano (Kamchatka)**

**Grigory Kuznetsov** and Victor Sharapov

**Evolution from lithospheric to sub-lithospheric potassic liquids with sulfide droplets in Wudalianch[...]**

**Irina Chuvashova** et al.

**Accommodation of the Cenozoic Tunka Rift Valley at the Ordovician Slyudyanka Collision Zone: insight[...]**

**Tatyana Yasnygina** et al.

**Mantle source characteristics of Triassic alkaline lavas within the Antalya Nappes, SW Turkey**

**Martha Papadopoulou** et al.

**Unusual Garnet Megacryst with a partly-crystallized melt inclusion from Cenozoic alkali basalts of S[...]**

**Anna Aseeva** and Oleg Avchenko

**Criteria of the mantle metasomatism intensity and diamond grades of kimberlites**  
**Alexander Ivanov** et al.

**Development of deep-seated magma sources throughout the Earth's history: Evidence from evolution[...]**  
**Evgenii Sharkov** et al.

**Crust-mantle systems of magmatic complexes of Sikhote-Alin' (Far East, Russia)**  
**Nina Gorelikova** et al.

**The timescale of the endogenous processes and PT conditions of garnet, biotite, and plagioclase equilibrium[...]**  
**Elena Nitkina** et al.

**Evolution and metallogenic settings of the Pados-Tundra chrome-bearing ultramafic complex, Kola Peninsula[...]**  
**Pavel Serov** et al.

**Sr-Nd-C-O isotope composition of carbonatites of the Petyayan-Vara REE deposit (Vuoriyarvi, Kola Peninsula[...])**  
Evgeniy Kozlov and **Ekaterina Fomina**

We have 9 minutes or less for each presentation

Chat time: 10:45–12:30

Chair person Igor Ashchepkov

**The Zhidoy massif of ultrabasic-alkaline rocks and carbonatites: its geochemical features, sources and evolution[...]**  
**Nikolai Vladykin** and Natalia Alymova

**Ore-geochemical specialization and sources of Ural and Timan carbonatite complexes**  
Irina Nedosekova and Nikolai Vladykin

**Mineral assemblages and xenolith cargo in the Storkwitz carbonatite (Delitzsch Complex, Germany)**  
**Semen Kovalev** et al.

**Mafic alkaline ring Yllimakh massif, Aldan shield, Yakutia, geochemistry and geochronology**  
**Sergei Sablukov** et al.

**Mineralogy and geochemistry of the inclusion-bearing Cr-pyropes from the Chompolo lamprophyres, Aldan shield[...]**  
Evgeny Nikolenko et al.

**Amphibole bearing mantle beneath Leningrad kimberlite pipe, West Ukukit field, NE Yakutia**  
**Igor Ashchepkov** and Svetlana Babushkina

**Mantle xenoliths from Zapolyarnayay pipe comparison to Novinka pipe Upper Muna field Yakutia**

**Igor Ashchepkov et al.**

**Bumerang pipe Ary Mastakh field Upper Anabar region Yakutia – relatively fertile mantle in th[...]**

**Sergei Kostrovitsky and Igor Ashchepkov**

**Kimberlitic Zircons from the Northern Rianabarie**

**Svetlana Babushkina et al.**

**We are looking forward to meeting you in the session chat box!**