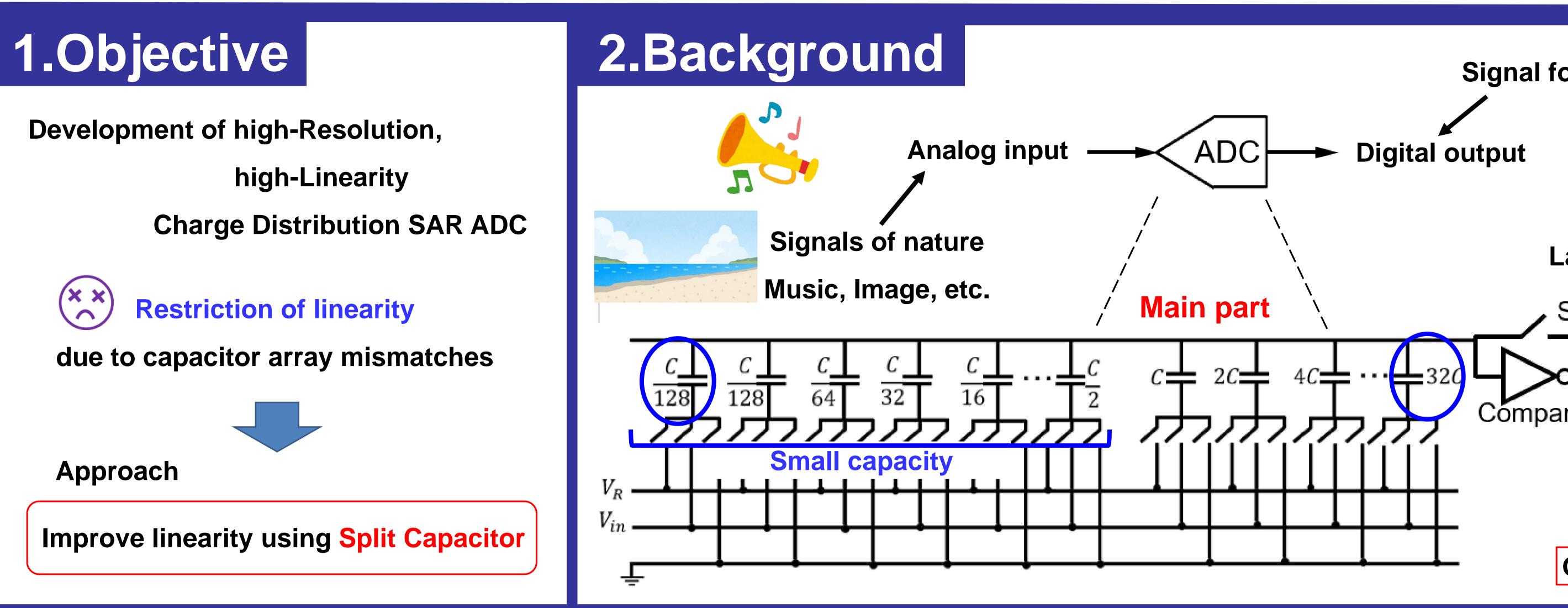
Charge Distribution SAR ADC Architecture with Split Capacitor and its Testing

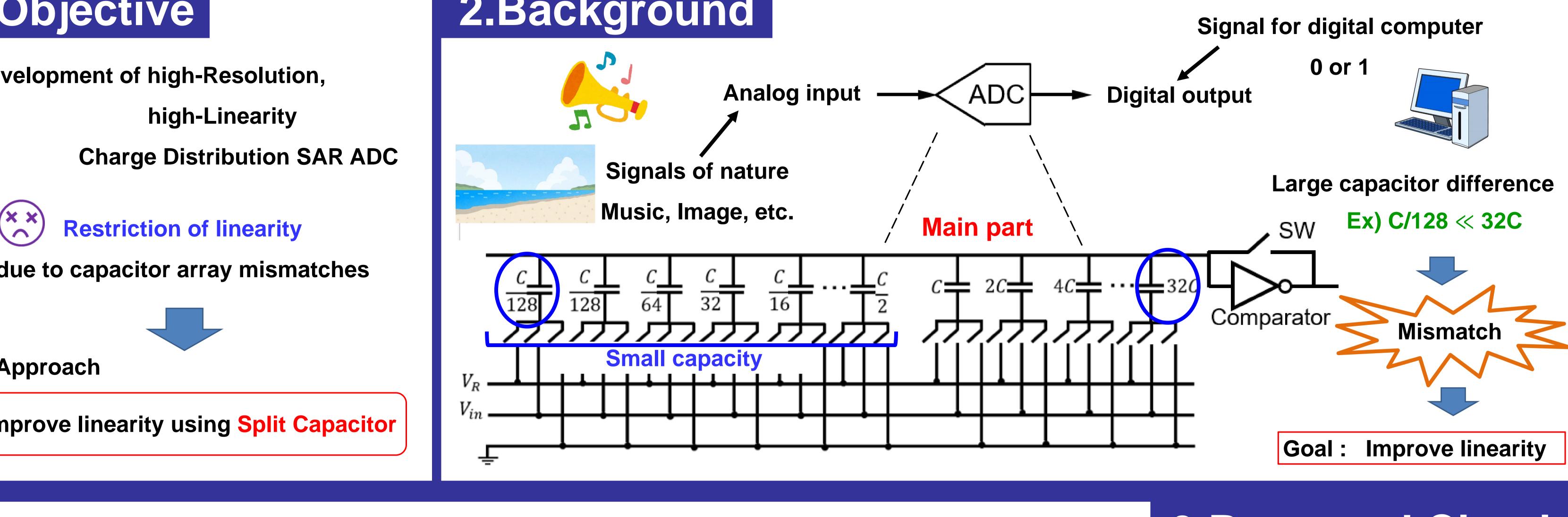


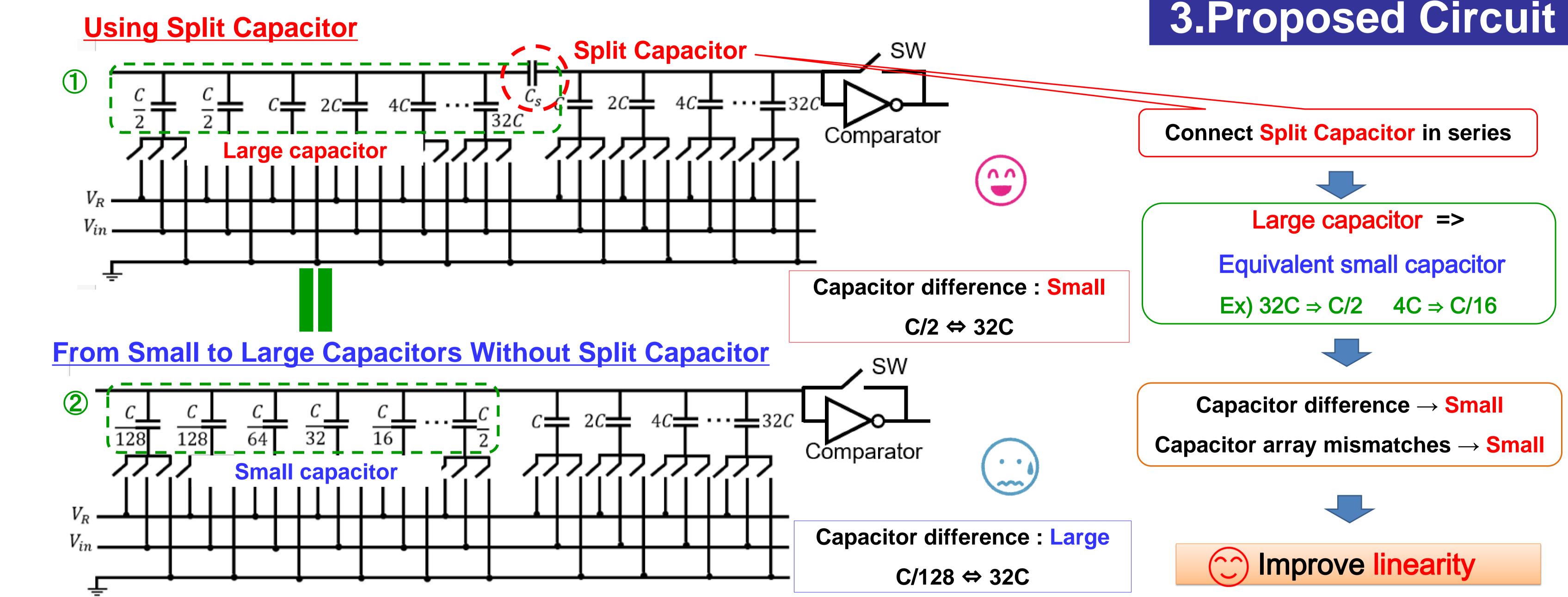
Riho Aoki,

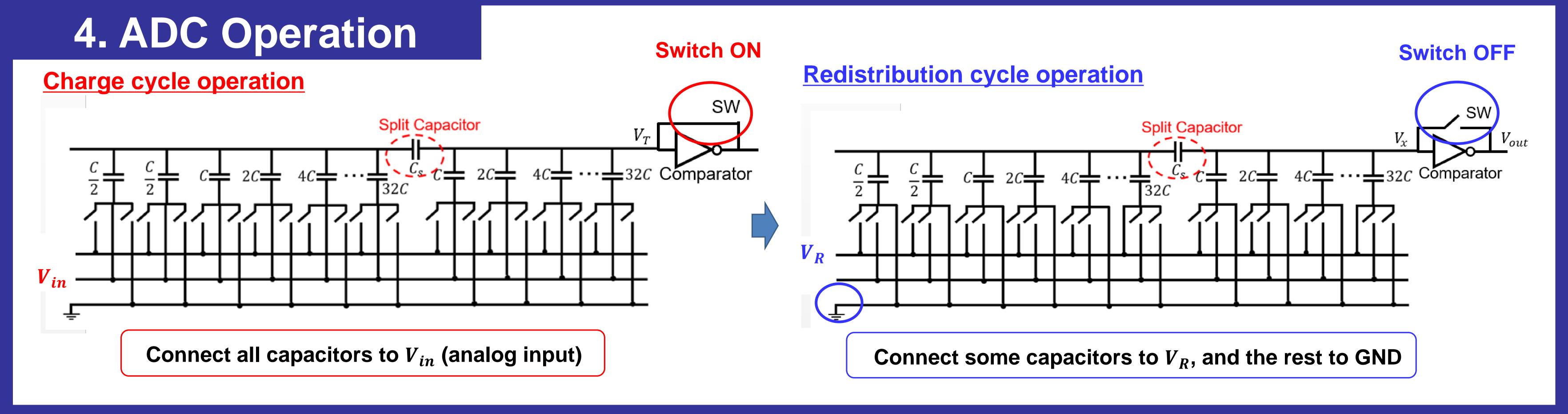
Anna Kuwana, Haruo Kobayashi (Gunma University)

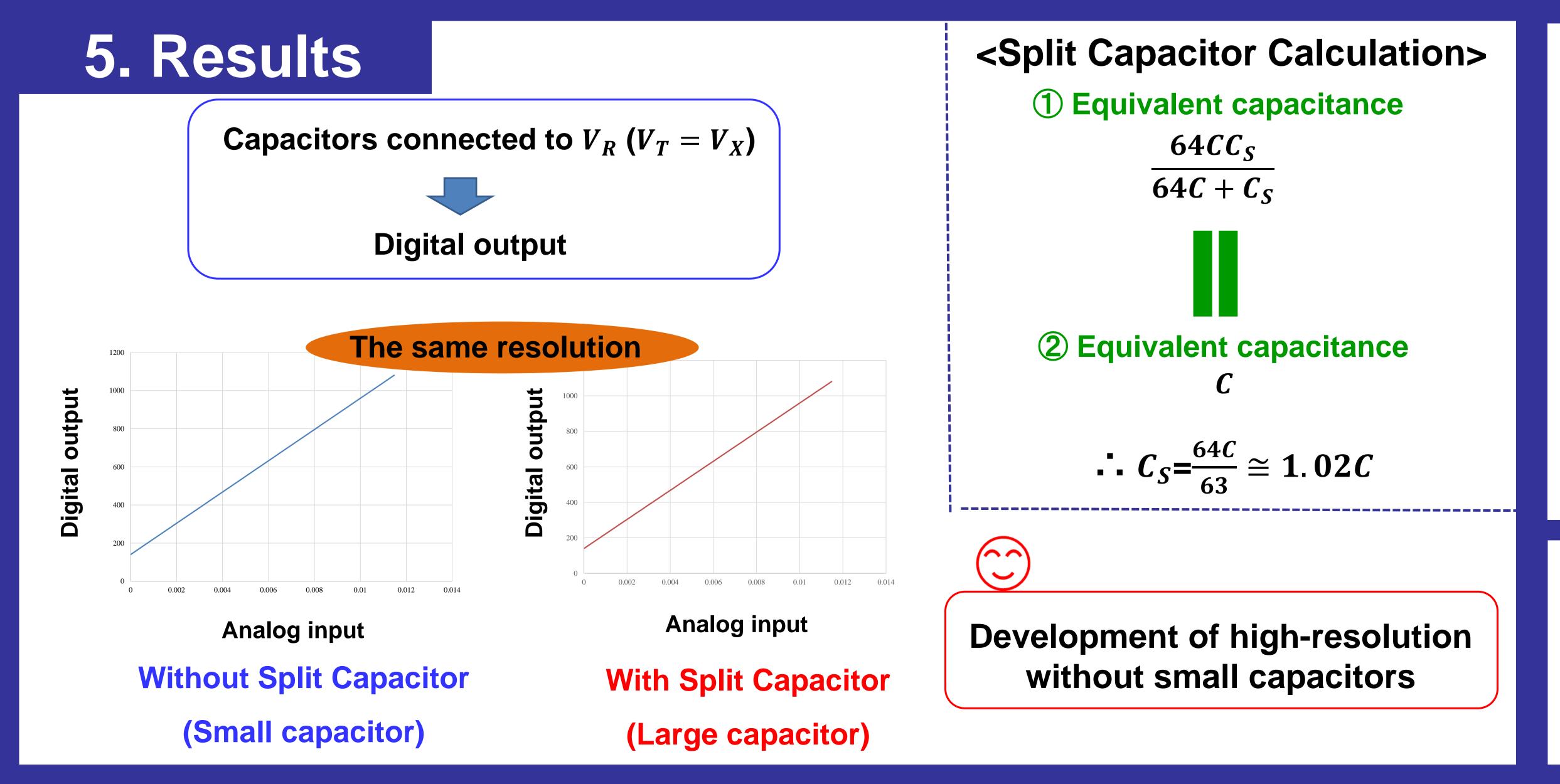
t15304001@gunma-u.ac.jp











6.Conclusion

< Charge Distribution SAR ADC >

Conventional: Restriction of linearity due to capacitor array mismatches



Proposed: Using Split Capacitor

- **Capacitor array mismatches** → **Small**
- Improve linearity

Reference

[1] Yujie Zhao, Yuto Sasaki, Yuki Ozawa, Riho Aoki, Anna Kuwana and Haruo Kobayashi "ADC Histogram **Test for Specific Codes", AMDE, Kiryu (Dec.2018)**