

# Notes (Feb. 2024)

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## 1 Polonyi-KKLT model

We analyze the following potentials

$$W = w_0 - Ae^{-aT} + Be^{-bT}X, \quad K = -3 \ln(T + \bar{T}) + |X|^2 \quad (1.1)$$

since they are easier than one we will see later.

## References

- [AHK07] H. Abe, T. Higaki, and T. Kobayashi, *More about  $F$ -term uplifting*, *Physical Review D* **76** (2007) 105003, [arxiv:0707.2671](#) [[hep-ph](#), [physics:hep-th](#)].
- [AHKO06] H. Abe, T. Higaki, T. Kobayashi, and Y. Omura, *Moduli stabilization,  $F$ -term uplifting and soft supersymmetry breaking terms*, *Physical Review D* **75** (2007) 025019, [arxiv:hep-th/0611024](#).
- [AKOS12] H. Abe, T. Kobayashi, H. Ohki, and K. Sumita, *Superfield description of 10D SYM theory with magnetized extra dimensions*, *Nuclear Physics B* **863** (2012) 1–18, [arxiv:1204.5327](#) [[hep-ph](#), [physics:hep-th](#)].