

The main whole Question is:

when will humans

**avoid *hate*
against themselves
and start**

**to conquer
the Universe ?**



in the meantime,

You,
lucky illuminated folks,



*fellows of Faraday and Maxwell,
Fleming and De Forest pupils,
apprentices of Tesla and Alexanderson,*

**FASTEN
YOUR SEAT BELT**

I came in ***peace***

from the **SWITCHING TUBE VALLEY**

to land you
in the ***amazing beach***
of a ***forgiven*** and ***forbidden***
planet !

Enjoy !

WELCOME !

STUDIO R.T.S. RAMPIN ING. MARCO - ITALY

proudly presents

The Switchinglow Project

*or how to bring the AmpDiVa technology
over every DIYer's workbench*

@

the Burning Amp
Ft. Mason, San Francisco, CA
November 13th, 2016



www.switchinglow.com



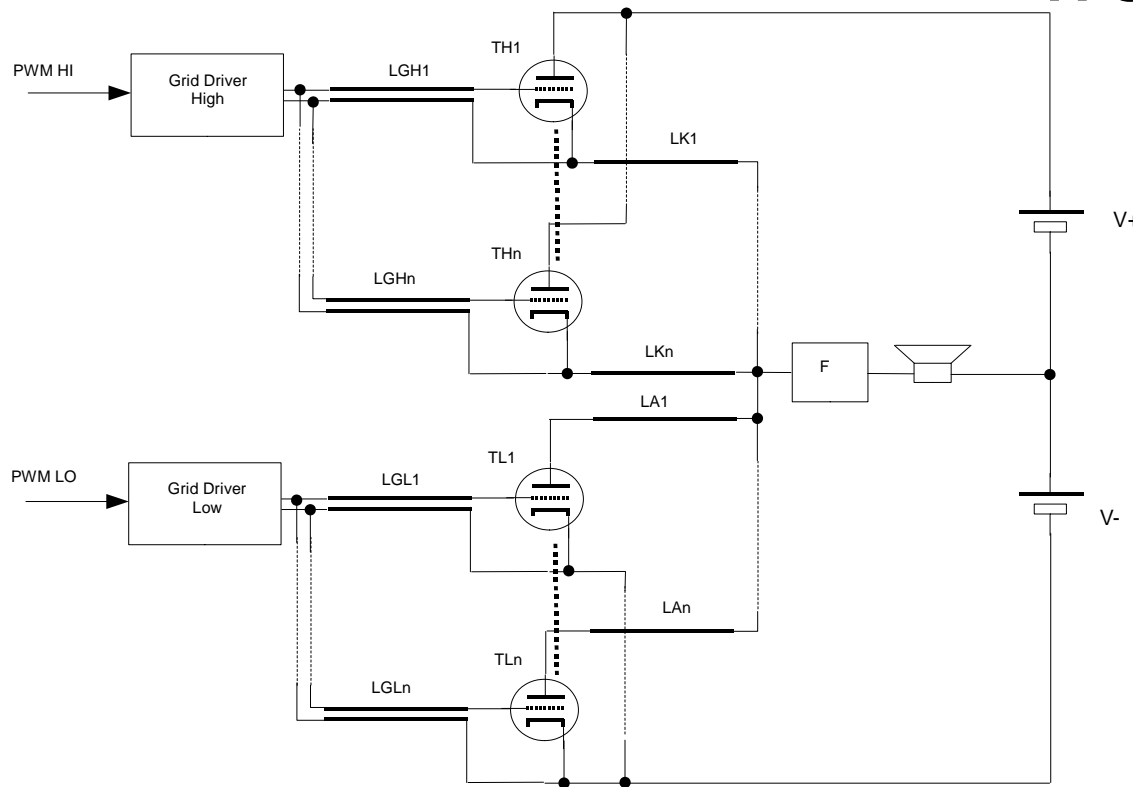
ONCE UPON A TIME...

One year ago,
at the EMF Rome '15
we depicted **how**

to use triodes
as power
switching
devices

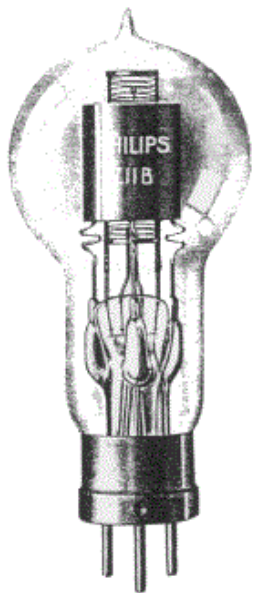
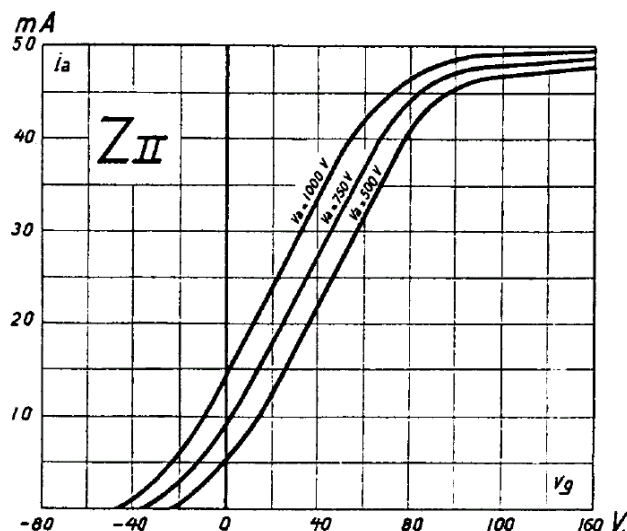
in the
bridge
arms

of classic
Class-D amps



AmpDiVa
Half Bridge
Basic Diagram

The *Amp Di Va* cookbook recipe to use a triode as a good electronic switch



- use *Floating Grid Drivers* to feed PWM streams to the bridge arms (grid reference is the cathode, but cathodes of different arms are not connected together !)
- use *negative grid pulses* to put the triode in off state
- use *positive grid pulses* to push the triode in on state
this seems not allowed by modern tube d/s but it can be done, just limit the grid-cathode current
(BTW: positive grid was “normal” until 1930 circa, then it **disappears**...keep it in mind for later...)
- use several *triodes connected in parallel* to obtain an higher on state plate current like in OTL
- use *Signal Integrity* to switch all the tubes at the same time

By The Way...

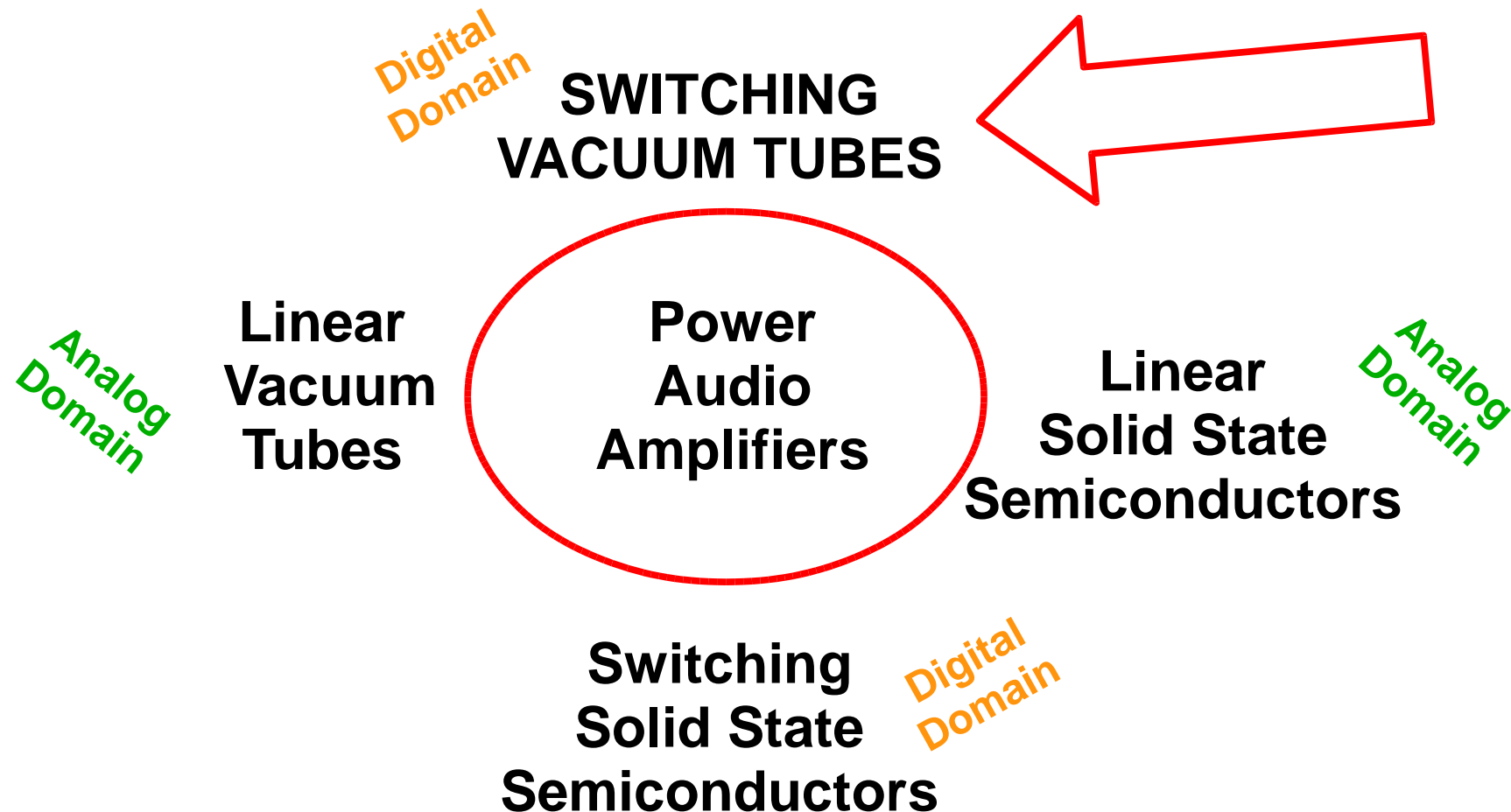
the *AmpDiVa* Technology,

-Amplificatori Digitali Valvolari, transl. Digital Tube Amplifiers-

is FREE.

Everybody can use the *AmpDiVa* term to refer to an ***amplifier made*** with a **full** or **half H-bridge**, where the ***switching power devices*** in the arms are **vacuum tubes** or **group of paralleled tubes**, and each arm has its own **Floating Grid Driver**, and every FGD provides ***negative*** and ***positive grid pulses***, and **Signal Integrity** can be used to assure **correct switching time**...this last is not mandatory but it's **funny**.

Amp Di Va Tech... the missing cornerstone in the audio power amplifier design !



It's the unusual *fourth way* to design tube audio amp
after the three most common well known ways to do

This sounds really interesting !

Infact it:

- **allows a real full digital domain path through the vacuum tubes**

→ *That sounds good for digital native audio !*

- **allows the use of lower rail voltages**

→ *That is really DIYer friendly !*

- **allows the use of multiple series connected loudspeakers**

due to the constant current output behaviour

→ *That is very good for
loudspeakers builders !*



...but it's also a **great challenge** for **EMC !**

Using the *AmpDiVa* Technology
in *2015* we demonstrated the feasibility of
high end customized amps...



... soon in **2017** we will try to
define a new standard
for **PRO**...



... but now, here at the **BA-16**,

we propose the

***Switchinglow Project
Evaluation Kit***

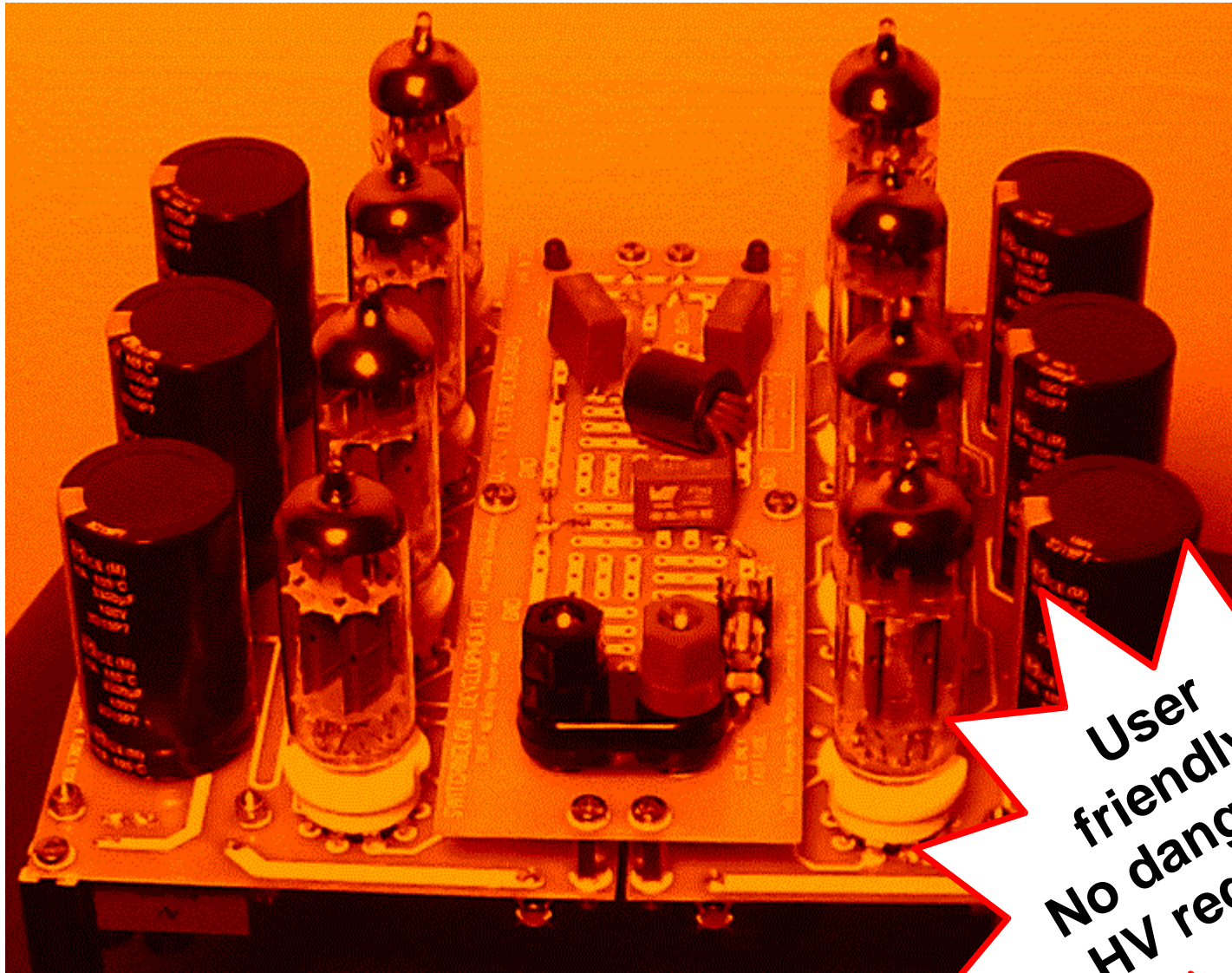
to bring the

AmpDiVa technology

on every enthusiast

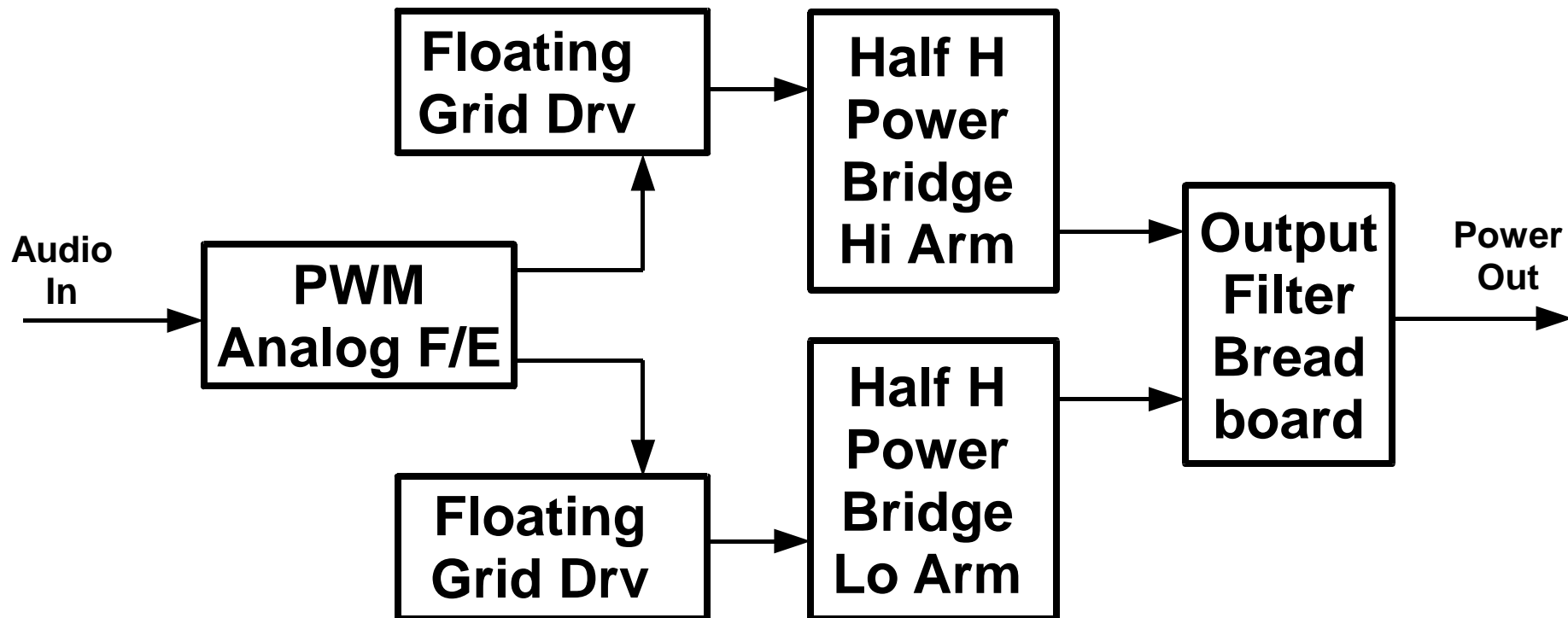
audio DIYer's workbench

...the ***Hottest Evaluation Kit*** for every
serious audio **DIYer** !



User
friendly !
No dangerous
HV required !

...the *SWITCHINGLOW* Project Evaluation & Development Platform



...just add a DC split power supply, the
loudspeaker and your beloved music !

...all you need to start !



**Easy to assembly,
all SMDs already soldered !**

Sorry Sir, but why should I use it ?

- the *AmpDiVa* technology discloses an unusual, may be new, way to employ tubes in audio amplifiers
- it's like a new land, plenty of space to be explored, enabling new fields of research
- forget hybrids ! It opens the challenge for a true full digital audio path with the hottest sound of the tubes

So, if you love tubes sound, or if you are a native digital with an ingenious vintage passion...

***...enjoy
the SWITCHINGLOW Project !***

Thank you !

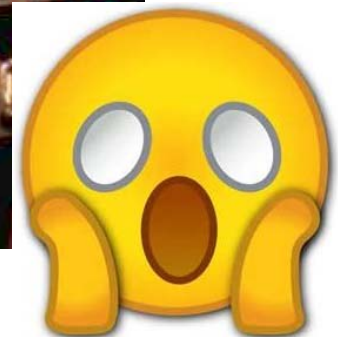
....ops, please...wait a moment...
there is a last pending question...

**...what about the disappeared
Positive Grid Polarization ?**

Did you find any reason about it ?

OK folks, to tell the true I met an old **MIB...**
he whispered that the PGP has been ***censured***
after...

...THE PHILADELPHIA EXPERIMENT !





...believe it

or not !